



 deltalab

General Catalogue 2011



# ISO QUALITY STANDARD

## UNE-EN ISO 9001

Quality management systems. Requirements.



## UNE-EN ISO 13485

Medical devices - Quality management systems - Requirements for regulatory purposes.



## CE MARK IN Medical Devices (MDD) AND Medical Devices for in Vitro Diagnostics (IVD)

The CE Mark concerns those products that, affecting human beings, may involve a risk to their health. For that reason they must comply with the following requirements:

- Do not compromise health or clinical status.
- Do not compromise user's health or safety.
- Do not compromise the health or safety of third persons.
- Minimize the risk of errors of use thanks to its ergonomic features and the environment in which it is intended to be used.
- It takes into account the technical knowledge, expertise, experience, training, and medical and physical conditions of the intended users.

The CE Mark implies installations, and work organisation, and systems are submitted to rigorous both internal and external quality controls.

**It guarantees the highest level of safety when using those products intended for the sample collection and handling of human samples, both for the patient and for the user.**

CE Mark guarantees that those products will be freely commercialised within the European Union. Since December the 7<sup>th</sup> 2003, the only sanitary products (MDD and IVD) that can be commercialised are those ones with CE Mark.

## MEDICAL DEVICES CLASIFICATION

### 1. MEDICAL DEVICES (MDD)

According to Directive 93/42/EEC (modified by Directive 2007/47/EC), a MDD Medical Device is *"any instrument, device, equipment, material or any other article, including software, developed to be used with human beings, alone or in association with others, with the aim of: diagnosis, prevention, tracing, treatment or relief of a disease; diagnosis, tracing, treatment, relief or compensation in case of an injury or disability; investigation, substitution or modification of anatomy or physiological processes; fertility control; and not designed to perform the main action expected to be obtained by immunizing, pharmaceutical or metabolic means inside or over the human body"*.

This Directive establishes 4 categories of medical devices; DELTALAB manufactures and markets temporary use product, so: **Class I (sterile and non sterile)** and **Class IIa:**

- **Class I (Non sterile): Low risk, invasive medical devices**

It includes: non sterile tongue depressors, speculums... Inspection gloves are considered both as MDD Class I and PPE (Personal Protective Equipment). All of them are self certification products.

- **Class I (sterile): Low risk, sterile, invasive medical devices**

Among others: sterile tongue depressors, sterile Ayre spatulas, sterile cytology brushes... They are certified by a Notified Body.

- **Class IIa (sterile): Moderated risk medical devices**

Swabs with and without medium are included in this Class. They are certified by a Notified Body.

**CE Mark allows swabs to be used in surgical operations as an invasive product.**

### 2. MEDICAL DEVICES FOR IN VITRO DIAGNOSTIC (IVD)

According to Directive 98/79/EC, a medical device for in vitro diagnostic is *"any medical device consisting on a reagent, reactive product, calibrator, monitoring equipment, instrumentation and equipment cases, sample containers, instrument, apparatus or system designed by the manufacturer to be used in vitro to examine human samples, including blood and tissues donations; with the aim of collecting information: about a physiologic or pathologic status, or a congenital anomaly; or to determine the security and compatibility with potential receptors; or in order to supervise therapeutical measures"*.

They are considered low risk devices as they are not in touch with human beings and are self certification products.

As an example, sample containers, collection tubes, capillary tubes, etc. are included.

### PPE PRODUCTS (Personal Protective Equipment)

According to Directive 89/686/EEC, a PPE product is *"any device or system a human being is wearing or using, which protects him from one or various risks that may endanger his health and/or security"*.

Security glasses and protection gloves are included. Inspection gloves are considered both as MDD and PPE as they protect the user while being a low risk, invasive medical device.



## Sales conditions

- Goods are shipped at the purchaser's risk and on the purchaser's account.
- Goods are considered delivered, and at the responsibility of the purchaser, from their shipment from our warehouses. Any problem of transport or other is therefore the entire responsibility of the purchaser from that moment.
- **MINIMUM ORDERING QUANTITY (per total order)** according to our price list.
- **MINIMUM ORDER QUANTITY (per product):** In those products indicated, it is possible to acquire minor quantities from the standard selling unit. In those cases, a surcharge is applied in order to cover the manipulation costs. Please see specific conditions in the Sales Conditions attached to the Price List or contact our Sales Department. Orders over the standard selling unit must be multiple of this standard selling unit.
- Orders must be in complete case quantities unless indicated otherwise.
- Goods delivered are the property of Deltalab, S.L.U. until paid in full.
- **ORDERS** should be confirmed in writing, stating our code number, description, total quantity and referring to any quotation number that may apply. In case of doubt the code number will have preference over its description.
- For any **CLAIM** please quote our delivery note reference, batch number, product code, total quantity and any other relevant information. Any claim should be made within 60 days of receipt of goods.
- **RETURN OF GOODS:** We only accept the return of goods due to a problem caused by DELTALAB, S.L.U. *A prior authorisation must be obtained from our commercial department, in which we will indicate which freight forwarder should be used.*
- Weights and measures in this catalogue are in Kgs and cubic meters.

For reasons which are beyond our control we reserve the right to modify the product specifications.

- Please contact us for any **SPECIAL PRODUCT**. In addition to the products listed we can offer a wide range of colour caps, different concentrations of anticoagulants, different configurations of our stainless steel racks and private labelled products.

DELTALAB, S.L.U.

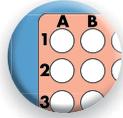
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Stackable



Graduated



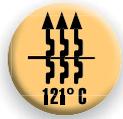
Alphanumerical Identification



Floats



DNase and RNase free



Autoclavable (see more information about autoclaving in page 11)



Suitable for PCR



Suitable for QPCR (Real Time PCR)



New

**CE (IVD)**

Directive 98/79/EC (in Vitro Diagnostic medical device)

**CE (MDD)**

Directive 93/42/EEC (low and moderate risk medical device)

**CE class IIa**

Directive 93/42/EEC (Moderate risk, sterile medical device)

**CE (EPI)**

Directive 89/686/EEC (Personal protective equipment)

The technical data (dimensions, capacities and resistances) specified in this catalogue are approximated. The resistances (to chemical products, temperature, centrifugation...) may suffer variations depending on external conditions. We recommend to test the product under the forecasted conditions of use. Please do not hesitate to ask for samples if necessary.



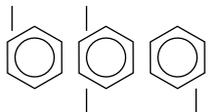
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	PELD		PEHD		PP		PS		TPX		ABS		PMMA		PC		PVC		PTFE	
	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50
1.4 - dioxane	●	■	●	●	■	■	✖	✖	■	■			✖	✖	■	■	✖	✖	●	●
Acetaldehyde	●	✖	●	■	●	✖	✖	✖	●	✖	✖	✖	✖	✖	■	✖	■	✖	●	●
Acetic acid	●	●	●	●	●	●	■	■	●	●	✖	✖	✖	✖	●	■	●	■	●	●
Acetone	■	✖	●	●	●	●	✖	✖	●	●	■	■	✖	✖	✖	✖	✖	✖	●	●
Acrylonitrile	●	●	●	●	■	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Adipic acid	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	■	●	●
Aluminium chloride	●	●	●	●	●	●	●	●	●	●			●	●	✖	✖	●	■	●	●
Aluminium hydroxide	●	●	●	●	●	●	■	■	●	■			■	■	■	✖	●	●	●	●
Allyl alcohol	●	●	●	●	●	●	●	■	●	■			✖	✖	●	■	■	✖	●	●
Amino acids	●	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●
Ammoniac	●	●	●	●	●	●	■	✖	●	●			●	●	✖	✖	■	■	●	●
Ammonic hydroxide (30 %)	●	●	●	●	●	●	■	✖	●	●	●	■	●	●	✖	✖	●	■	●	●
Ammonium chloride	●	●	●	●	●	●	●	●	●	●	●	●	■	■	■	■	●	■	●	●
Amyl acetate	■	✖	●	■	■	✖	✖	✖	●	■			●	●	✖	✖	✖	✖	●	●
Amyl alcohol	●	●	●	●	●	●	■	■	●	●					●	●	■	■	●	●
Amyl chloride	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Aniline	●	■	●	●	●	●	✖	✖	●	■	✖	✖	✖	✖	■	✖	✖	✖	●	●
Aqua regia	✖	✖	✖	✖	■	✖	■	✖	■	■	✖	✖	✖	✖	✖	✖	■	■	●	●
Benzaldehyde	●	●	●	●	●	●	✖	✖	●	●	✖	✖	✖	✖	■	✖	✖	✖	●	●
Benzene	■	✖	●	●	●	■	✖	✖	●	■	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Benzine	■	✖	●	●	■	■	✖	✖	●	■			●	●	■	✖	●	●	●	●
Benzoid acid	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖			✖	✖	■	■	■	■	●	●
Boric acid (10 %)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bromine	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Bromoform	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Butyl acetate	■	■	●	●	■	■	✖	✖	●	■	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Butyl alcohol	●	●	●	●	●	●	■	✖	●	■	✖	✖	■	✖	■	■	■	■	●	●
Calcium chloride	●	●	●	●	●	●	●	●	●	●			●	●	●	●	■	✖	●	●
Calcium hydroxide	●	●	●	●	●	●	●	■	●	●			■	■	■	✖	■	✖	●	●
Calcium hypochlorit	●	●	●	●	●	●	●	●	●	■			■	■	■	✖	■	✖	●	●
Carbon sulphate	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Carbon tetrachloride	✖	✖	■	✖	✖	✖	✖	✖	✖	✖			■	✖	✖	✖	✖	✖	●	●
Citric acid	●	●	●	●	●	●	●	■	●	●	●	●			●	■	■	■	●	●
Cupric sulphate	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	■	●	●
Chlorine (10 %)	■	✖	■	✖	■	✖	✖	✖	■	✖			■	✖	■	■	■	✖	●	●
Chlorine water	✖	✖	✖	✖	✖	✖	✖	✖	■	✖	●	●	✖	✖	✖	✖	✖	✖	●	●
Chloroform	✖	✖	●	■	✖	✖	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Chlorydic acid (35 %)	●	●	●	●	●	●	■	■	●	●			■	✖	✖	✖	■	✖	●	●
Chromic acid (10 %)	●	●	●	●	●	●	■	■	●	●			■	✖	●	■	●	■	●	●
Chromic acid (50 %)	●	■	●	■	■	■	✖	✖	■	■			✖	✖	■	✖	●	✖	●	●
Chromic sulphate blend	●	✖	●	✖	✖	✖	■	■	■	✖			✖	✖	✖	✖	●	■	●	●
Decahydronaphtalene	■	■	■	■	✖	✖	✖	✖	■	✖			✖	✖	✖	✖	●	■	●	●
Dichlorobenzene	■	✖	■	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Diethylene glycol	●	●	●	●	●	●	■	✖	●	●			✖	✖	■	■	✖	✖	●	●
Dimethyl formamide	●	●	●	●	●	●	✖	✖	●	●			✖	✖	✖	✖	■	✖	●	●
Dimethyl sulphoxide	●	●	●	●	●	●	✖	✖	●	●			✖	✖	✖	✖	✖	✖	●	●
Ether	✖	✖	■	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Ethyl acetate	●	●	●	●	●	●	✖	✖	●	■	✖	✖			✖	✖	✖	✖	●	●
Ethyl alcohol (100%)	●	●	●	●	●	●	✖	✖	●	■	■	■	✖	✖	●	■	●	■	●	●
Ethylene chloride	✖	✖	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Ethylene oxide	■	■	■	■	■	✖	✖	✖	■	✖			✖	✖	■	✖	■	✖	●	●
Fluorine	✖	✖	✖	✖	✖	✖	✖	✖	■	✖			✖	✖	■	■	●	●	●	●
Formaldehyde (40 %)	●	●	●	●	●	●	✖	✖	●	●	■	✖	✖	✖	●	■	■	✖	●	●
Formic acid (98-100 %)	●	●	●	●	●	●	●	■	●	●	■	■	✖	✖	●	■	✖	✖	●	●
Fuel oil	■	✖	●	■	●	●	✖	✖	■	■			■	✖	●	■	✖	✖	●	●
Glacial acetic acid	●	■	●	●	●	■	✖	✖	●	■	✖	✖			✖	✖	●	■	●	●
Glycerine	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●

	PELD		PEHD		PP		PS		TPX		ABS		PMMA		PC		PVC		PTFE	
	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50
Hexane	✖	✖	●	■	●	■	■	✖	■	✖	✖	✖	●	●	✖	✖	■	✖	●	●
Hydrofluoric acid (40 %)	●	●	●	●	●	●	●	●	●	●			✖	✖	✖	✖	■	✖	●	●
Hydrofluoric acid (70 %)	●	✖	●	■	●	■	✖	✖	●	■			✖	✖	✖	✖	✖	✖	●	●
Hydrogen peroxide (35%)	●	●	●	●	●	●	●	●	●	●	✖	✖	✖	✖	●	●	●	■	●	●
Iodine	✖	✖	✖	✖	●	●	■	✖	●	■			✖	✖	■	✖	✖	✖	●	●
Isobutyl alcohol	●	●	●	●	●	●	■	■	●	●			■	✖	●	●	●	■	●	●
Isopropyl alcohol	●	●	●	●	●	●	■	■	●	●			■	✖	●	●	●	■	●	●
Isopropyl benzene	■	✖	●	■	■	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Lactic acid	●	●	●	●	●	●	●	●	●	●	●	●	■	✖	●	●	■	■	●	●
Mercurous chloride	●	●	●	●	●	●	●	■	●	●			●	●	●	●	✖	✖	●	●
Mercury	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●
Methyl acetate	■	✖	■	■	●	■	✖	✖	●	●	✖	✖			✖	✖	✖	✖	●	●
Methyl alcohol	●	■	●	●	●	●	■	✖	●	●	■	✖	✖	✖	●	■	●	■	●	●
Methyl propyl ketone	●	■	●	●	●	■	✖	✖	■	■			✖	✖	✖	✖	✖	✖	●	●
Methylene chloride	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Mineral oil	●	■	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●
Monochloroacetic acid	●	●	●	●	●	●	✖	✖	●	●			■	✖	■	✖	●	●	●	●
Nitric acid (10 %)	●	●	●	●	●	●	✖	✖	●	●	●	●	●	■	●	■	●	■	●	●
Nitric acid (50 %)	■	■	■	✖	■	✖	✖	✖	■	✖			■	■	●	■	■	✖	●	●
Nitric acid (70 %)	✖	✖	✖	✖	✖	✖	✖	✖	■	✖	✖	✖	■	✖	✖	✖	✖	✖	●	●
Nitrobenzene	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Oxalic acid	●	●	●	●	●	●	●	●	●	●	●	■	●	●	●	●	●	●	●	●
Ozone	●	●	●	●	●	●	■	■	●	●			●	●	●	●	●	■	●	●
Perchloric acid	●	✖	●	✖	●	✖	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	■	✖	●	●
Perchloroethylene	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖			■	✖	✖	✖	✖	✖	●	●
Phenol (100 %)	●	■	●	●	●	●	✖	✖	■	■			✖	✖	✖	✖	✖	✖	●	●
Phosphoric acid (85 %)	●	●	●	●	●	●	●	■	●	●	●	●	✖	✖	●	●	●	■	●	●
Phtalat dibutyllic	■	✖	■	✖	●	■	✖	✖	●	■			✖	✖	✖	✖	✖	✖	●	●
Potassium chloride	●	●	●	●	●	●	■	■	●	●			●	●	●	●	●	■	●	●
Potassium hydroxide	●	●	●	●	●	●	■	■	●	●	●	●	●	●	✖	✖	■	■	●	●
Potassium permanganate	●	●	●	●	●	●	●	●	●	●	■	■	●	●	●	●	●	●	●	●
Propylene glycol	●	●	●	●	●	●	●	●	●	●	●	●			●	■	✖	✖	●	●
Propylene oxide	●	●	●	●	●	●	✖	✖	●	●					✖	✖	✖	✖	●	●
Pyridine	●	■	●	■	■	■	✖	✖	●	■	✖	✖	✖	✖	✖	✖	■	✖	●	●
Salicylic acid	●	●	●	●	●	●	●	●	●	●							■	✖	●	●
Salicylic aldehyde	●	●	●	●	●	●	✖	✖	●	●					■	■	✖	✖	●	●
Silver acetate	●	●	●	●	●	●	■	■	●	●			■	■	●	●	■	■	●	●
Silver nitrate	●	●	●	●	●	●	■	■	●	●			●	●	●	●	■	■	●	●
Sodium acetate	●	●	●	●	●	●	●	●	●	●			✖	✖	●	●	■	■	●	●
Sodium dichromate	●	●	●	●	●	●	●	●	●	●			●	●			●	●	●	●
Sodium hydroxide	●	●	●	●	●	●	●	●	●	●	●	●			✖	✖	●	●	●	●
Sulfuric acid (60 %)	●	●	●	●	●	●	✖	✖	●	●			✖	✖	■	■	■	✖	●	●
Sulfuric acid (98 %)	■	✖	■	✖	✖	✖	✖	✖	●	●	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Tartaric acid	●	●	●	●	●	●	●	●	●	●			■	■	●	●	●	●	●	●
Tetrahydrofuran	✖	✖	■	✖	✖	✖	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Toluene	■	✖	■	■	■	✖	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Trichloroethane	✖	✖	■	✖	✖	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Trichloroethylene	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Triethylene glycol	●	●	●	●	●	●	●	■	●	●			■	■	●	■	■	✖	●	●
Tripropylene glycol	●	●	●	●	●	●	●	●	●	●			■	■	●	■	■	✖	●	●
Turpentine	■	✖	■	✖	✖	✖	✖	✖	■	■	✖	✖	●	●	✖	✖	●	●	●	●
Urea	●	●	●	●	●	●	●	●	●	●			●	●	✖	✖	■	✖	●	●
Vinylidene chloride	✖	✖	■	✖	✖	✖	✖	✖	✖	✖			✖	✖	✖	✖	✖	✖	●	●
Xylol	■	✖	■	✖	✖	✖	✖	✖	■	✖	✖	✖	✖	✖	✖	✖	✖	✖	●	●
Zinc chloride (10 %)	●	●	●	●	●	●	●	●	●	●			✖	✖	●	●	●	■	●	●
Zinc sulphate (10 %)	●	●	●	●	●	●	●	●	●	●	✖	✖	■	■	●	●	●	■	●	●

● = Excellent / very good chemical resistance  
 ■ = Good / limited chemical resistance  
 ✖ = Poor chemical resistance

	POLYSTYRENE	HIGH DENSITY POLYETHYLENE	LOW DENSITY POLYETHYLENE	POLYPROPYLENE
GENERAL PROPERTIES	PS	PEHD	LDPE	PP STANDAR
<b>Structure</b>	Amorphous structure with stable dimensions $\left[ -(\text{CH}_2-\text{CH}_n) - \text{CH}_2-\text{CH}- \right]_m$  $\left[ -\text{CH}-\text{CH}_2-(\text{CH}-\text{CH}_2)- \right]_m$	The catalytic controlled polymerisation of ethylene minimises the production of compact, lateral structures resulting in a pliable but rigid material. $\left[ -\text{CH}_2-\text{CH}_2- \right]_n$	Ethylene is polymerised under super pressure, which produces a higher number of less compact lateral structures resulting in a material which is more flexible than HDPE. $\left[ -\text{CH}_2-\text{CH}_2- \right]_n$	Polypropylene properties are similar to polyethylene. A methyl group is bonded to each carbon pair, which greatly improves the thermal resistance. Polyethylene becomes brittle when in contact with oxidants for long periods of time. $\left[ -\text{CH}(\text{CH}_3)-\text{CH}_2- \right]$
<b>Transparency</b>	Optically clear	Opaque	Opaque	Translucent
<b>Mechanical resistance</b>	Rigid / Brittle	Rigid	Flexible	Resists Deformation
<b>Density</b>	1,05 gr/cm <sup>2</sup>	0,955 gr/cm <sup>2</sup>	0,924 gr/cm <sup>2</sup>	0,91 gr/cm <sup>2</sup>
<b>Max. temperature</b>	70° C	80° C	75° C	121° C
<b>Min. temperature</b>	-10° C	-50° C	-50° C	0° C*
<b>Autoclavable</b>	NO	NO	NO	YES
<b>Gas sterilization</b>	DOSES LIMITED	YES	YES	YES
<b>Gamma irradiation Sterilization</b>	YES	YES	YES	DOSES LIMITED
<b>Beta irradiation Sterilization</b>	YES	YES	YES	YES
<b>Water absorption</b>	< 0,05 %	< 0,01 %	< 0,01 %	< 0,02 %
<b>Properties</b>	-Bright finish -Clear	- Light. - Slight electrostatic Charge	- Light weighted. - Slight electrostatic change - Impact resistant	-Virtually inert

\*There are special blends of PP like those from our cryovials, which are able to withstand up to -196°C.

See PET in page 299

	POLYSTYRENE	HIGH DENSITY POLYETHYLENE	LOW DENSITY POLYETHYLENE	POLYPROPYLENE
GENERAL CHEMICAL RESISTANCE	PS	HDPE	LDPE	PP STANDARD
<b>Oils</b>	GOOD	GOOD	GOOD	GOOD
<b>Acids</b>	LIMITED*	GOOD*	GOOD*	GOOD*
<b>Alcohol</b>	GOOD	GOOD	GOOD	GOOD
<b>Bases</b>	GOOD	GOOD	GOOD	GOOD
<b>Ketones</b>	POOR	LIMITED	LIMITED	LIMITED
<b>Esters</b>	POOR	LIMITED	LIMITED	LIMITED
<b>Fats</b>	GOOD	GOOD	GOOD	GOOD
<b>Hydrocarbons -aromatics</b>	POOR	GOOD	LIMITED	GOOD
<b>Hydrocarbons Chloride</b>	See chemical resistance table**	LIMITED	LIMITED	See chemical resistant table**
<b>Hydrocarbons Halogenated</b>	POOR	LIMITED	LIMITED	LIMITED
<b>Metals (Cu, Mn, Co)</b>	See chemical resistance table**	See chemical resistant table**	See chemical resistant table**	LIMITED
<b>Oxidants</b>	See chemical resistance table**	LIMITED/POOR	LIMITED/POOR	LIMITED/POOR

\* Poor resistance to strong oxidant acids

\*\* Chemical resistances of plastics are detailed in a specific table

METHOD	PROCEDURE	RECOMMENDED FOR	PRECAUTIONS	LIMITATIONS
Dry heat	Direct action of dry heat 190°C for 80' or 160°C (130-160').	Glassware, metals and liquids.	High temperatures may damage fragile metals.	The own material's limitations. High heat soaking may unacceptably affect material properties.
Autoclave, Super Heated Steam under pressure	Action of 3 elements: temperature, water steam and pressure 121°C(15'), 126°C (10')	Glassware, fabrics, liquids etc...All materials resistant to heat above 121°C and moisture.	Not recommended for most ordinary plastics. When autoclaving capped containers, total closure shall be avoided	Generally used for the sterilisation of small articles.
Ethylene Oxide ("EO Gas")	Used alone, associated with freon or carbon dioxide. 55 to 60°C (2-3h), 27 to 33°C (5h30)	Generally all materials, some exceptions.	Requires a subsequent ventilation to ensure sterilised products are free of residual gases that may be toxic.	Ethylene oxide is toxic and explosive.
Gamma irradiation (Radioactive cobalt source)	By radiations emitted by a radioactive source	Widely used in industries to sterilise single use material. Sterilisation doses are calculated from bioburden counts.	Limitations in some applications, as some material properties may be unacceptably altered by this method.	Effects on material are cumulative, therefore gamma sterilised products are not resterilisable, by most conventional methods, after first use.
Beta irradiation (non radioactive particle accelerator)	High energy electron beam	Widely used in industries to sterilise single use material. Sterilisation doses are calculated from bioburden counts.	Limitation in some applications, as some material properties may be unacceptably altered by this method.	Affects on material are cumulative, therefore beta sterilised products are not resterilisable, by most conventional methods, after first use.
Chemical (Formol-Aldehydes)	Chemical products are steam and heat	Special applications, minimal industrial use.	Toxic	Requires specialised sterilisation equipment and procedures.

In an **ASEPTIC PRODUCTION**, manufacturing processes, packaging methods and environment are designed to prevent bacterial contamination (bioburden). Our **EUROTUBO®** containers are injected at a temperature of 250 °C and are automatically connected to the assembling and packaging processes, without manual intervention, so as to guarantee an aseptic production.



Maximum resistance of nitrile gloves 125°C.

- : Excelent;      ■ : Good;  
■ : Limited;      ✗ : Not recommended

These indications are solely for information. It is strongly recommended that the user carries out preliminary testings.

### Glove properties chart

	LATEX	NITRILE	VINYL
Mechanical resistance			
- Perforation	<span style="color: blue;">■</span>	<span style="color: green;">■</span>	<span style="color: orange;">■</span>
- Tearing	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: orange;">■</span>
Adequate for foodstuff handling	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: blue;">■</span>
Comfort	<span style="color: green;">■</span>	<span style="color: orange;">■</span>	<span style="color: blue;">■</span>

### Glove chemical resistance chart

#### Diluted mineral acids

	LATEX	NITRILE	VINYL
Hydrochloric acid	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: blue;">■</span>
Chromic acid	<span style="color: red;">✗</span>	<span style="color: orange;">■</span>	<span style="color: blue;">■</span>
Nitric acid	<span style="color: blue;">■</span>	<span style="color: orange;">■</span>	<span style="color: orange;">■</span>
Perchloric acid	<span style="color: orange;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>
Phosphoric acid and Sulphuric acid	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: green;">■</span>

#### Concentrated acids

	LATEX	NITRILE	VINYL
Chlorhidric acid	<span style="color: green;">■</span>	<span style="color: green;">■</span>	<span style="color: blue;">■</span>
Chromic acid	<span style="color: red;">✗</span>	<span style="color: orange;">■</span>	<span style="color: blue;">■</span>
Nitric acid	<span style="color: orange;">■</span>	<span style="color: orange;">■</span>	<span style="color: blue;">■</span>
Sulphuric acid	<span style="color: red;">✗</span>	<span style="color: red;">✗</span>	<span style="color: blue;">■</span>

#### Hydrocarbon and oil by products

	LATEX	NITRILE	VINYL
Aniline	<span style="color: blue;">■</span>	<span style="color: orange;">■</span>	<span style="color: red;">✗</span>
White spirit	<span style="color: red;">✗</span>	<span style="color: green;">■</span>	<span style="color: orange;">■</span>
Styrene	<span style="color: red;">✗</span>	<span style="color: orange;">■</span>	<span style="color: orange;">■</span>
Gasoline, Hexane, Paraffine, Kerosene	<span style="color: red;">✗</span>	<span style="color: green;">■</span>	<span style="color: orange;">■</span>

## CENTRIFUGATION:

### Conversion G - R.P.M.

The relative centrifugal force (RCF) can be determined using the formula:

$$FCR = 1,118 \times 10^{-6} \times r \times n^2$$

r= radius of the rotor (mm); distance between the axis of the rotor and the farrest wall of the tube.

n= rotating speed (revolutions per minute).

The result is expressed in terms of acceleration (g); 1 g is equal to 9,807 m/s<sup>2</sup>.

### Conversion chart G - R.P.M.

r \ G	1.000 G	1.500 G	2.000 G	2.500 G	3.000 G	3.500 G	4.000 G	4.500 G	5.000 G
50 mm	rpm 4.227	5.177	5.978	6.683	7.321	7.908	8.454	8.967	9.452
75 mm	3.451	rpm 4.227	4.881	5.457	5.978	6.457	6.903	7.321	7.717
100 mm	2.989	3.661	rpm 4.227	4.726	5.177	5.592	5.978	6.340	6.683
125 mm	2.673	3.274	3.781	rpm 4.227	4.630	5.001	5.347	5.671	5.978
150 mm	2.440	2.989	3.451	3.859	rpm 4.227	4.566	4.881	5.177	5.457
175 mm	2.259	2.767	3.195	3.572	3.913	rpm 4.227	4.519	4.793	5.052
200 mm	2.113	2.588	2.989	3.342	3.661	3.954	rpm 4.227	4.483	4.725
225 mm	1.993	2.440	2.818	3.151	3.451	3.728	3.985	rpm 4.227	4.456
250 mm	1.890	2.315	2.673	2.989	3.274	3.537	3.781	4.010	rpm 4.227

**METRIC EQUIVALENCES**

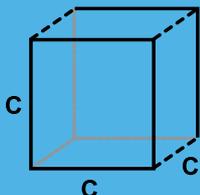
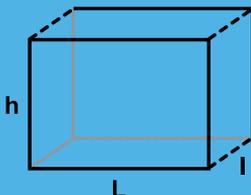
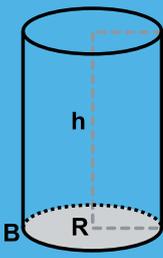
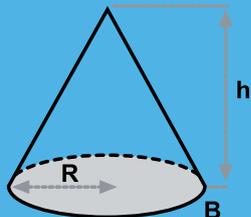
ANGLO-SAXON MEASURES	METRIC SYSTEM
<b>Length:</b> 1 inch (in) = 2.54 cm 12 in = 1 foot (ft) = 30.48 cm 3 ft = 1 yard (yd) = 91.44 m 1,760 yd = 1 mile = 5,280 ft = ±1.6093 km	1 centimeter (cm) = 0.01 metro (m) 1 millimeter (mm) = 0.1 cm 1 micron (µm) = 0.001 mm 1 nanometer (nm) = 0.001 µm
<b>Volume:</b> 1 cubic inch (in³) = 16.387 cm³ 1,728 in³ = 1 cubic foot (ft³) = 0.0283 m³ 27 ft³ = 1 cubic yard (yd³) = 0.7646 m³	1,000 mm³ = 1 cubic centimeter (cm³) 1,000 cm³ = 1 cubic decimeter (dm³) 1,000 dm³ = 1 cubic meter (m³)
<b>Capacity:</b> 1 ounce EUA (fl.oz) = 29.57 ml 1 gallon EUA = 3.7854 l 1 gill = 0.142 l 4 gills = 1 pint = 0.5683 l 2 pints (pt) = 1 cuarto (qt) = 1.1365 l 4 qt = 1 brit gallon = 4.5461 l	1 microliter (µl) = 0.001 ml 1 milliliter (ml) = 0.001 l 1 centiliter (cl) = 0.01 l 1 deciliter (dl) = 0.1 l 1 cubic decimeter (dm³) = 1 l 1 hectoliter (hl) = 100 l
<b>Weight :</b> 1 ounce (oz) = 28,349 g (1 g = 0.035 oz) 16 oz = 1 pound (lb) = 0.4536 kg 112 lb = 1 hundredweight (cwt) = 50.80 kg	1 kilogramme (kg) = 1,000 g 1 milligramme(mg) = 0.001 g 1 microgramme (µg) = 0.001 mg

**PRESSURE: CONVERSION**

**IS EQUAL TO:**

1 at (technical atmosphere)	0,980665 bar
1 Atm (physical atmosphere)	1,01325 bar
1 Atm	1,033 at
1 bar	105 Pa (Pascal)
1 Torr	1,3332 mbar (millibar)

**HOW TO FIGURE OUT VOLUMES**

CUBE	RECTANGULAR PRISM	CYLINDER	CONE
			
$V = C^3$	$V = (L \times h) \times l$	$S = 2\pi R h$ (lateral volume) $V = Bh = \pi R^2 h$	$V = \frac{Bh}{3} = \frac{\pi R^2 h}{3}$

**CONVERSION (°F - °C - °K)**

°F (Fahrenheit) = (°C x 1,8) + 32	°C (Celsius) = (°F - 32) x 0,556	°K (Kelvin) = °C + 273,15
-----------------------------------	----------------------------------	---------------------------

**USEFUL INFORMATION: TRANSPORT**

Containers: capacity:	20 feet: 28 m3 maximum 40 feet: 58 m3 maximum 40 HC feet: 68 m3 maximum
Pallets:	maximum height land transport: 2.40 m maximum height sea transport: 2.10 m width x depth european pallet: 80 x 120 cm width x depth american pallet: 100 x 120 cm





## Swabs for microbiological sampling

Swabs are used for biological sampling.

Specially used for processing samples which, after being coloured, will be analysed by microscopy.

Also suitable for isolations in culture medium.

Another important use is its capacity to spread dishes by dissemination techniques (for example for susceptibility testing by Kirby-Bauer or by E-test).

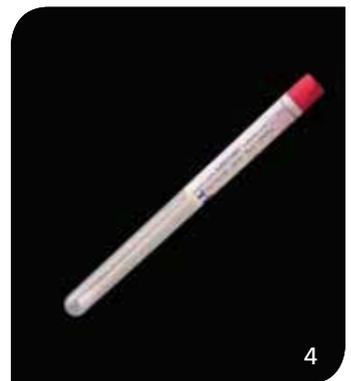
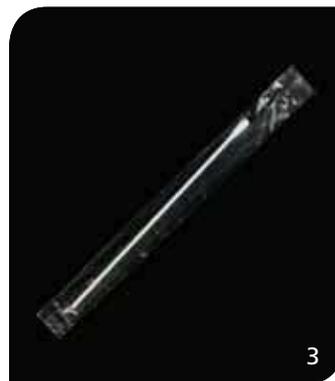
## Swabs class IIa

The swabs for microbiological sample collection in open wounds, as being a surgical invasive product with a temporary use, are manufactured in compliance with Guideline 93/42/CEE (Directive of Sanitary Products), amended by Directive 2007/47/EC, according to which is classified as class IIa.

General Management of Pharmacy and Sanitary Products works as the Official Control Organism with the number 0318.

## Quality standards

1. UNE-EN ISO 556-1 Sanitary products sterilisation. Requirements to be designated as "STERILE" Part 1: Sterilised sanitary products requirements,
2. UNE-EN ISO 1174-1 Sterilisation of sanitary products. Microorganisms number estimate in a product.
3. UNE-EN 980 Graphic symbols used in the sanitary products labelling.
4. UNE-EN ISO 14971 Medical devices. Application of risk management to medical devices.
5. UNE-EN ISO 13485 Medical devices. Quality management systems. Requirements for regulatory purposes.



## Presentations

1. **In Bulk** - the non-sterile swabs presented in bags of 100 units
2. **Peel-pack package** – single bag. Paper (fiber free) which can be peeled. It consists in one side of medical paper and another side of polyethylene.
3. **Flow-pack package** – single bag. Polypropylene bioriented bag.
4. **Package in polypropylene tube** – The product is identified on the label.

All sort of package have the following parameters printed on: product code, product description, lot number, expiry date, CE mark, manufacturer name and address, sterilisation method and single use mark ②

## Non sterile swabs

CE (MDD)

Model **300232** is longer than the traditional swabs and is designed for those hard to reach places.

For use in gynaecology when taking endocervical cells while using the speculum.

### Dimensions:

**300232** shaft 200 x 2,5 mm. Tip 5 mm Ø.

### Other models dimensions:

Wood and plastic: 150 x 2.5 mm (tip Ø ± 5 mm).

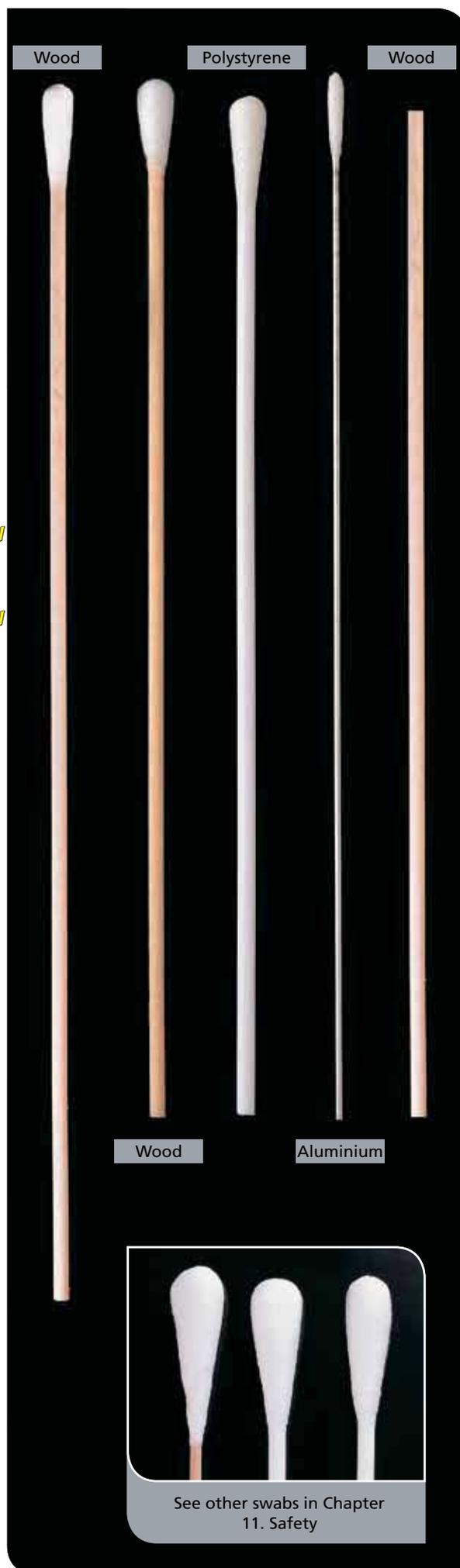
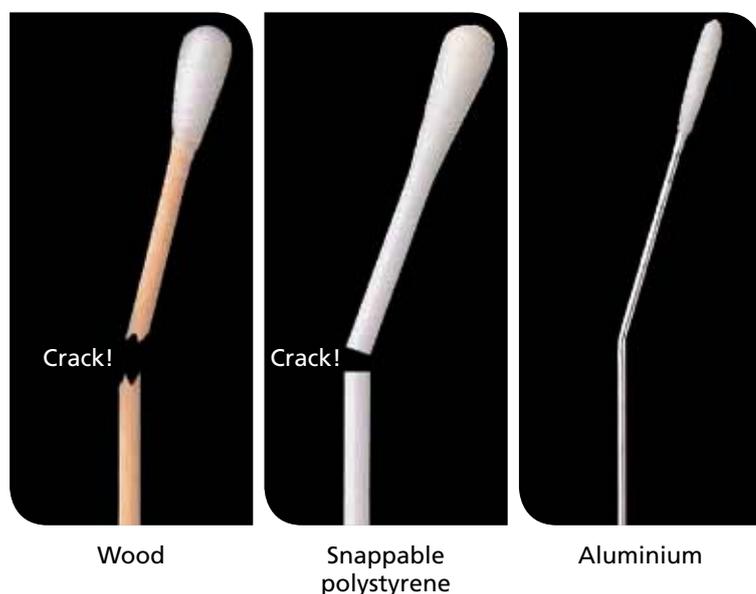
Aluminium: 150 x 0.9 mm (tip Ø ± 1.5 mm).

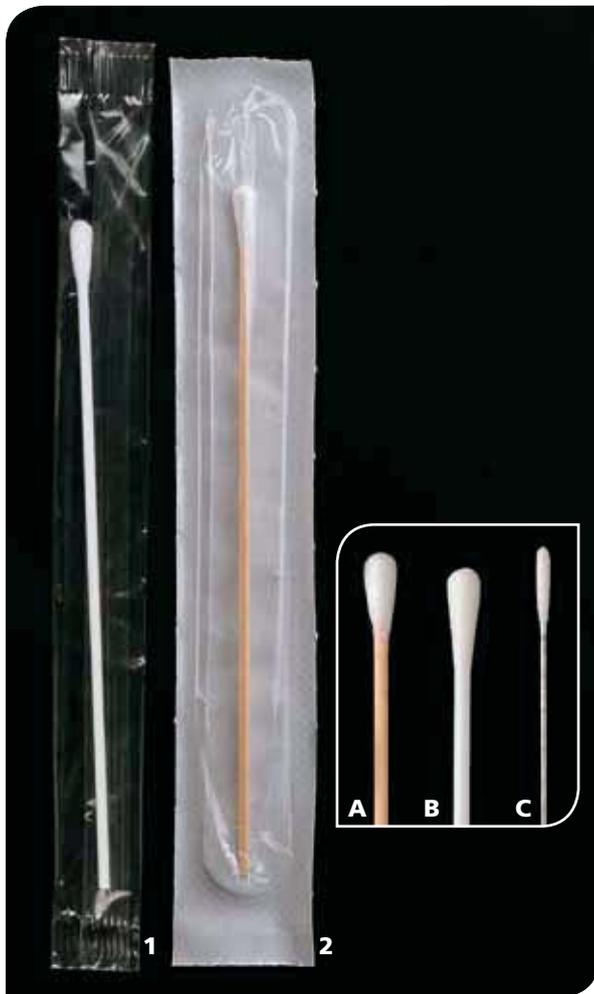
They are supplied in bags of 100 units, excepting code **300205**, supplied bulk.

code	description	case quantity	case weight	case volume
<b>300232</b>	wood + cotton	80 x 100	5.00	0.030
<b>300230</b>	wood + cotton	100 x 100	7.80	0.032
<b>300260</b>	polypropylene + cotton	40 x 100	2.50	0.016
<b>300270</b>	snappable polystyrene + cotton	40 x 100	2.50	0.016 <b>NEW</b>
<b>300268</b>	snappable polystyrene + dacron	40 x 100	2.50	0.016
<b>300243</b>	aluminium + cotton	10 x 100	2.40	0.006
<b>300244</b>	aluminium + viscose	10 x 100	2.40	0.006 <b>NEW</b>
<b>300205*</b>	wooden shaft only	1 x 1,000	0.41	0.001

\* Non CE product.

All swabs have a round, compact and shred resistant head for a proper sampling avoiding fiber loose.



**Sterile swabs**

CE class IIa (MDD)

Sterile swabs Individually wrapped in peel-pack (sterilized by ethylene oxide) or flow pack (sterilized by radiation), depending on the model.

For use when samples do not need to be transported.

We recommend our transport swabs in tubes when sample transport is required (see next page).

code	description	package	case quantity	case weight	case volume
<b>300200</b>	wood + cotton	peel-pack	2 x 1,000	2.6	0.029
<b>310200</b>	wood + cotton	flow-pack	2 x 1,000	2.6	0.029
<b>300201</b>	snappable PS + cotton	peel-pack	2 x 1,000	3.5	0.029
<b>300202</b>	snappable PS + viscose	peel-pack	2 x 1,000	3.5	0.029
<b>310202</b>	snappable PS + viscose	flow-pack	2 x 1,000	3.5	0.029
<b>300203</b>	aluminium + cotton	peel-pack	2 x 1,000	2.4	0.029
<b>310253.1</b>	aluminium + viscose	flow-pack	2 x 1,000	2.3	0.029

Cases per pallet: 54.

1. Flow pack      A: Wood  
 2. Peel pack     B: Snappable Polystyrene  
                       C: Aluminium

**Sterile swabs (2 units)**

CE class IIa (MDD)

Two Sterile swabs wrapped in peel-pack (sterilized by ethylene oxide) or flow pack (sterilized by radiation), depending on the model.

One swab is designed for cleaning the sampling area.

The other swab is designed for sample collection. For use when samples do not need to be transported.

We recommend our transport swabs in tubes when sample transport is required

1,000 peel-packs/flow-packs with 2 units each one per case.

code	description	package	case quantity	case weight	case volume
<b>300210</b>	wood + cotton	peel-pack	1,000	2.54	0.025
<b>300211.1</b>	snappable PS + cotton	peel-pack	1,000	2.72	0.025
<b>310211.1</b>	snappable PS + cotton	flow-pack	1,000	2.72	0.025

Cases per pallet: 54.



### Sterile swab in round tube CE class IIa (MDD)

Sterile dry swabs supplied in shockproof round bottom polypropylene tube, with a label sealing the cap.

Dimensions of tube: Ø 13 x 165 mm.

Sterilised by ethylene oxide.

code	description	case quantity	case weight	case volume
300250	wood + cotton	4 x 500	14.00	0.066
300259	wood + viscose	4 x 500	14.00	0.066
300261	snappable polystyrene + cotton	4 x 500	14.20	0.066
300252	snappable polystyrene + viscose	4 x 500	14.20	0.066
300251	aluminium + cotton	4 x 500	14.00	0.066
300253	aluminium + viscose	4 x 500	14.00	0.066
300263	snappable polystyrene + dacron	4 x 500	14.20	0.066
300250.1	wood + pure cotton	4 x 500	14.00	0.066

Cases per pallet: 27.



See Chapter 6. Sampling and Transport.

## Transport swabs with media



### New packaging:

- New **Plastic Peel Pack**
- New **Packaging Case** (100 pcs)
- New **External Box** (6 x 100 pcs)
- New **Tube Label**

**Manufactured  
in Clean Room  
+  
Sterilised  
by Radiation**

### Safety

- Paper less, plastic Peel Pack is an extraordinary safe system to maintain pack integrity and sterility

### Comfort

- Space saving
- Collapsible internal case
- Easy warehouse identification
- Selling unit easy to commercialize
- New standardised pack quantity for all our swabs

### Information

- Full range of transport medias listed on the Package
- Clear dual CE Marking IVD + MDD printed in both, Peel Pack and Case
- User's guide provided in both, Peel Pack and Case

### Design

- Attractive Peel Pack and friendly Users Guide
- Eye-catching Case designed exclusively for swabs
- Drawings of a swab and a tube on both the Peel Pack and the Case for first sight identification

### Traceability

- Each single Peel Pack is printed with the Catalogue number, Bar Code, Lot Number, Expiry Date and Product Description
- Both External and Internal Cases are also identified with Catalogue number, Bar Code, Lot Number, Expiry Date and Product Description.

### Environmentally friendly

- Peel Pack made of one material only: easy recycling!

## CE Swabs

As the two main components of a transport swab have different purposes and different ways of interaction with the patient, both have different CE treatment:

- Swab:** for microbiological sample collection. As a surgical invasive product of temporary use, is classified as CLASS IIa product in compliance with Guideline 93/42/EEC (Directive of Sanitary Products) amended by Directive 2007/47/EC.
- Tube with transport media:** container facilitator of survival and transport of biological samples prior to analysis. Classified as in vitro diagnostic IVD (according to Directive 98/79/EC).

## Transport media

The media used to transport the sample, has the appropriate chemical composition that maintains the bioburden levels with the minimum physiological activity, achieving thus the minimal quantitative and qualitative variation of the sample from the collection to its analysis.

## Components:

Each set consists in a tube and a swab, packed in a peel-pack bag (A) and sterilised by radiation.

- (B) **Tube with transport media:** Made of rigid polypropylene, suitable for food testing.
- (C) Polyethylene **cap** specially designed to close hermetically; non slippery surface when using gloves.
- (D) Coloured **label** in each tube with the following parameters printed: transport media type, sterilisation method, manufacturer name, CE mark, "single use" and "see the instructions" marks, lot number and expiry date, as well as spaces to write patient name, date, time, medical report number, source and kind of sample. The label seals the cap and the tube.
- (E) **Swab** fitted in a second cap with a shaft which ends in a tip of synthetic or organic material hardly adhered to the shaft. The cap provides a leakproof seal after sample collection.

Both the peel-pack package and the label of the tube are printed with the following information: transport media type, sterilization method, manufacturer name, CE mark, "single use" and "see the instructions" marks, lot number, and expiry date. Peel pack also includes bar code.

**Amies.  
Sterile****Swab: CE class IIa (MDD)  
Tube with media: CE (IVD)**

AMIES media is a modification of Cary Blair media, which is at the same time a modification of Stuart media.

Basically the glycerophosphate is replaced by an inorganic phosphate, and the methylene blue by pharmacological charcoal. Calcium and magnesium are also added, thus maintaining the permeability of the bacterial cell.

This media assures the viability of organisms such as:

Neisseria sp.  
Haemophilus sp.  
Corynebacterium sp.  
Trichomonas vaginalis  
Streptococcus pyogenes  
Streptococcus pneumoniae  
Shigella flexneri  
Salmonella typhi  
Brucella abortus  
Enterobacterias, etc.

The presence of charcoal on the media neutralises inhibitors and bacterial toxins, and improves the recovery ratio of Neisseria gonorrhoeae and Vibrio cholerae

Some microorganisms can resist on the media for up to 3 days, although the recovery of microorganisms is better if cultured in the first 24 hours. Amies transport swabs are available with or without charcoal.

Swabs are sterilised by radiation. Peel-pack dimensions: 38 x 210 mm. Expiry date: 30 months after sterilisation date.

code	description	case quantity	case weight	case volume
<b>300287</b>	snappable polystyrene + viscose	6 x 100	8.5	0.052
<b>300285</b>	snappable polystyrene + viscose (with charcoal)	6 x 100	8.5	0.052
<b>300281</b>	aluminum + viscose	6 x 100	8.5	0.052 <b>NEW</b>
<b>300281/1</b>	aluminum + viscose (with charcoal)	6 x 100	8.5	0.052 <b>NEW</b>

Cases per pallet: 32.

**Liquid Amies.  
Sterile****Swab: CE class IIa (MDD)  
Tube with media: CE (IVD)**

This is a variation of the traditional Amies media swab where the media is presented on liquid form without agar.

Suitable for conservation of pathogens such as:

Haemophilus sp.  
Corynebacterium sp.  
Trichomonas vaginalis  
Streptococcus pyogenes  
Streptococcus pneumoniae  
Shigella flexneri  
Salmonella typhi  
Brucella abortus  
etc.

Media is supplied in its liquid form, in a sponge, suitable for direct extensions on slides. Swabs are sterilised by radiation.

Peel-pack dimensions: 38 x 210 mm.

Expiry date: 30 months after sterilisation date.

code	description	case quantity	case weight	case volume
<b>300284</b>	snappable polystyrene + viscose	6 x 100	7.5	0.052

Cases per pallet: 32.





### Stuart swabs. Sterile

Swab: CE class IIa (MDD)  
Tube with media: CE (IVD)

The modified Stuart media allows the conservation and transportation of a large number of pathological microorganisms, such as:

- Neisseria gonorrhoeae
- Haemophilus influenzae
- Neisseria meningitidis
- Bordetella pertusis
- Corynebacterium diphtheriae
- Trichomonas vaginalis
- Streptococcus sp.
- Salmonella sp.
- Shigella sp.
- etc.

The most unstable organisms will remain viable for up to 24 hours and other for several days. The media is reduced due to the presence of thioglycolate, which diffuses the enzymatic reactions of the bacteria.

The multiplication of the bacteria is prevented due to the lack of nitrogen in the media.

Swabs are sterilised by radiation. Dimensions of the peel-pack: 38 x 210 mm. Expiry date: 30 months from sterilisation date.

code	description	case quantity	case weight	case volume
300290	wood + cotton	6 x 100	8,5	0.052
300291	aluminium + cotton	6 x 100	8,5	0.052
300295	snappable polystyrene + viscose	6 x 100	8,5	0.052

Cases per pallet: 32.



### Cary Blair. Sterile

Swab: CE class IIa (MDD)  
Tube with media: CE (IVD)

Cary Blair is another modification of Stuart media.

The glycerophosphate has been substituted by inorganic phosphate since glycerophosphate is a metabolite for some bacteria, so they could grow and disperse the pathogens amount.

The methylene blue has also been removed and the pH increased to 8.4.

This is a media originally developed for faecal samples but is also used successfully for anaerobic transport, such as:

- Neisseria gonorrhoeae
- Vibrio cholerae
- Haemophilus influenzae
- Neisseria meningitidis
- Bordetella pertusis
- Streptococcus pneumoniae
- Shigella flexneri

Swabs are sterilised by radiation.

Dimensions of the peel-pack: 38 x 210 mm.

Expiry date: 30 months from sterilisation date.

code	description	case quantity	case weight	case volume
300280	wood + cotton	6 x 100	8.5	0.052
300280.2	snappable polystyrene + viscose	6 x 100	8.5	0.052

Cases per pallet: 32.

### Media for virus. Sterile

Swab: CE class IIa (MDD)  
Tube with media: CE (IVD)

This viral transport media preserves the specimen during transportation to the laboratory.

Suitable, among many others:

- Papiloma
- Pseudorrabia
- Influenza aviar (H7N1)
- Influenza A (H1N1) o H1N1/09 pandemic.

The media maintains the sample viable for up to 72 hours and in some cases for longer time

The addition of antimicrobial substances inhibit the growth of bacteria and fungi. Ideal for nasal, pharyngeal, ocular, skin and mucus samples.

Media is supplied in its liquid form, in a sponge, suitable for direct extensions on slides.

Swabs are sterilized by radiaton.

Expiry date: 18 months from sterilisation date

code	description	case quantity	case weight	case volume
300297	snappable polystyrene + dacron	6 x 100	7.8	0.052
300294	aluminium + dacron	6 x 100	9.4	0.052 <b>NEW</b>

Minimum order quantity: 100 units.

Cases per pallet: 32.



### Media for Chlamydia. Sterile

Swab: CE class IIa (MDD)  
Tube with media: CE (IVD)

Liquid media, suitable for Chlamydia.

For cervical samples it is recommended to firstly use a dry swab to clear the cervical channel.

Media is supplied in its liquid form, in a sponge, suitable for direct extensions on slides. Sterilised by radiaton.

Expiry date: 12 months from sterilisation..

code	description	case quantity	case weight	case volume
300299	snappable polystyrene + dacron	6 x 100	7.8	0.052

Minimum order quantity: 100 units.

Cases per pallet: 32.





### 90 x 14 mm Petri Dish

Made in polystyrene.

Supplied in groups of 20 units, packaged in heat sealed bags.

Code **200200** is **aseptic**.

Code **200209** is **sterile by radiation**.

Suitable for automatic filling machines.

code	description	sterile	case quantity	case weight	case volume	pallet quantity
------	-------------	---------	---------------	-------------	-------------	-----------------

#### With three vents

<b>200200</b>	Ø 90 x 14 mm	no	25 x 20	7.92	0.071	14,000
<b>200209</b>	Ø 90 x 14 mm	<b>RADIATION</b>	25 x 20	7.92	0.071	14,000

#### Not vented dishes, for the cultivation of anaerobic

<b>NEW 200200.4</b>	Ø 90 x 14 mm	no	25 x 20	7.92	0.071	14,000
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### 90 x 14 mm Petri Dish, two compartments

Made in polystyrene. **Aseptic**.

With three vents.

Supplied in groups of 20 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

They can be sterilised by radiation upon request.

code	description	case quantity	case weight	case volume	pallet quantity
------	-------------	---------------	-------------	-------------	-----------------

<b>200202</b>	Ø 90 x 14 mm 2 compartments	25 x 20	8.04	0.071	14,000
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### 90 x 14 mm Petri Dish, three compartments

Made in polystyrene. **Aseptic**.

With three vents.

Supplied in groups of 20 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

It can be sterilised by radiation upon request.

code	description	case quantity	case weight	case volume	pallet quantity
------	-------------	---------------	-------------	-------------	-----------------

<b>200203</b>	Ø 90 x 14 mm 3 compartments	25 x 20	8.15	0.071	14,000
---------------	--------------------------------	---------	------	-------	--------



### 90 x 15 mm Petri Dish, four compartments

Made in polystyrene. **Aseptic**.

Vented.

Supplied in groups of 25 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

It can be sterilised by radiation upon request.

code	description	case quantity	case weight	case volume	pallet quantity
------	-------------	---------------	-------------	-------------	-----------------

<b>200210</b>	Ø 90 x 15 mm 4 compartments	24 x 25	9.20	0.077	14,400
---------------	--------------------------------	---------	------	-------	--------

### Petri Dish 90 x 15 mm with internal cross

Made in polystyrene. **Aseptic.** With four vents. Stackable.  
With a mark on a side that helps orientation and a writing area on the bottom.

Supplied in groups of 25 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

It can be sterilised by radiation upon request.

code	description	case quantity	case weight	case volume	pallet quantity
200200.5	Ø 90 x 15 mm internal cross	24 x 25	7.50	0.077	14,400



### 140 x 20 mm Petri Dish

Made in polystyrene. With three vents.

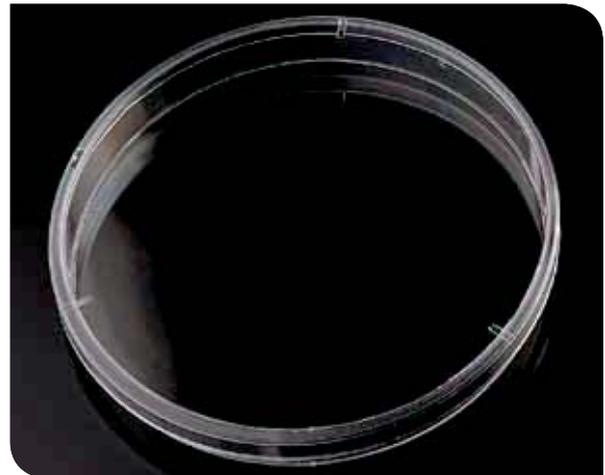
Supplied in groups of 10 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

Code **200214** is **aseptic**.

Code **200219** is **sterile by radiation**.

code	description	sterile	case quantity	case weight	case volume	pallet quantity
200214	Ø 140 x 20 mm	no	12 x 10	6.16	0.065	3,600
200219	Ø 140 x 20 mm	<b>RADIATION</b>	12 x 10	6.16	0.065	3,600



### 120 x 120 mm squared Petri Dish

Made in polystyrene. **Aseptic.**

With four vents.

Supplied in groups of 10 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

It can be sterilised by radiation upon request.

code	description	case quantity	case weight	case volume	pallet quantity
200204	120 x 120 mm	24 x 10	16.65	0.071	6,720



### 55 x 14 mm Petri Dish

Made in polystyrene. With four vents.

Supplied in groups of 15 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

Code **200201** is **aseptic**.

Code **200201.B** is **sterile by radiation**.

code	description	sterile	case quantity	case weight	case volume	pallet quantity
200201	Ø 55 x 14 mm	no	80 x 15	8.50	0.065	36,000
200201.B	Ø 55 x 14 mm	<b>RADIATION</b>	80 x 15	8.50	0.065	36,000





### Anaerobiosis jar

Easy and practical system designed to incubate **Petri dishes in anaerobiosis**.

2,5 l capacity, made of transparent polycarbonate (find more about in page 270); it embodies an hermetical lid with a silicone joint, and a stainless steel rack.

Compatible with the more usual reagents in microbiology.

Capacity: 12 standard dishes (Ø 90 mm).

code	Ø (with closure) x height mm	case quantity	case weight	case volume
<b>H-616</b>	165 x 230	1	0.72	0.007



### Ø 100 mm Petri dish baskets

These stainless steel baskets are suitable for dishes of diameter up to 10 cm.

Two models available to hold 10 or 20 Petri dishes

code	description	dimensions mm (height without handle)	handle mm height	case quantity	case weight	case volume
<b>H-600</b>	1 section, holds up to 10 dishes	110x105x250	105	1	0.10	0.003
<b>H-601</b>	2 sections, holds up to 20 dishes	215x105x250	100	1	0.20	0.006

We can supply customer-designed models.



### Moulded 90 or 100 mm Petri dish rack

Useful for safe transport and incubation 90 or 100 mm Petri dishes and helpful to streamline bench top sample processing.

Each rack holds up to forty-two Petri dishes with lids, configured in six columns of seven plates.

Up to 4 racks can be stacked together, and all interlock to prevent accidental knock over.

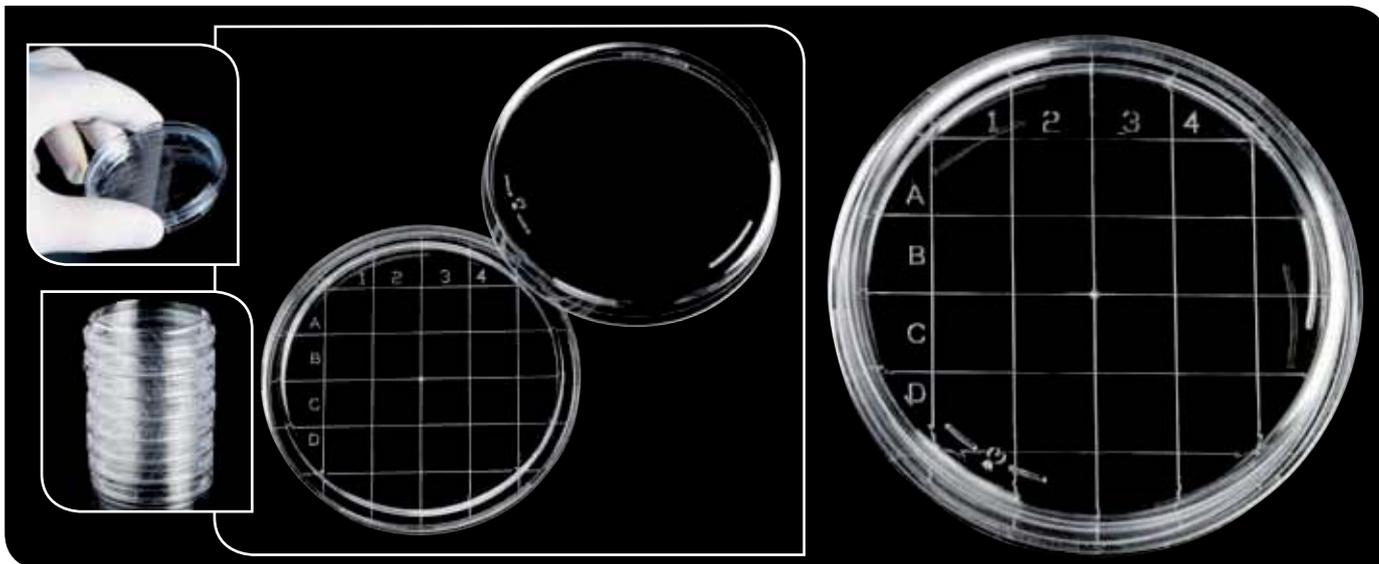
Access slots under the bottom Petri dishes allows a stack of dishes to be safely removed from the rack using a secure ring that places a finger under the bottom dish and thumb on top of the lid if the top dish.

A large centre divider provides space for labelling and incorporates a handle.

All parts are moulded with white polypropylene and are steam **autoclavable** at 121 °C.

Racks are supplied individually bagged, flat, and can be easily assembled (instructions included).

code	dimensions mm	case quantity	case weight	case volume
<b>H-611</b>	330 x 210 x 178	1	0.935	0.003



## Contact plates

ASEPTIC production.

Used in the pharmaceutical or food-processing industry, hospital environments for determining bacterial contamination of surfaces such as the skin, operating tables, refrigerated gondolas, and work surfaces.

They are manufactured in transparent polystyrene.

The moulded grid at the bottom makes it possible to identify the detected contamination per cm<sup>2</sup> and it facilitates the counting of colonies.

**Stable stacking:** The shape of the lid makes stacking perfectly stable during transport and incubation, and saves space on work surfaces. Dimensions of the dish: 65,7 mm x 14,7 mm height.

code	description	sterile	case quantity	case weight	case volume	cases per pallet
200208	Rodac contact plate	no	25 x 20	5.00	0.034	70
200218	Rodac contact plate	<b>RADIATION</b>	25 x 20	5.00	0.034	70



See chapter 6.  
Sampling and transport



See chapter 5.  
Microscopy and staining

## Moulded contact plate rack

Useful for safe transport and incubation of Rodac contact plates and helpful to streamline bench top sample processing.

Each rack holds up to 60 contact plates with lids (minimum diameter: 65 mm, maximum diameter: 72 mm) configured in six columns of ten plates. Up to 4 racks can be stacked together, and all interlock to prevent accidental knock over.

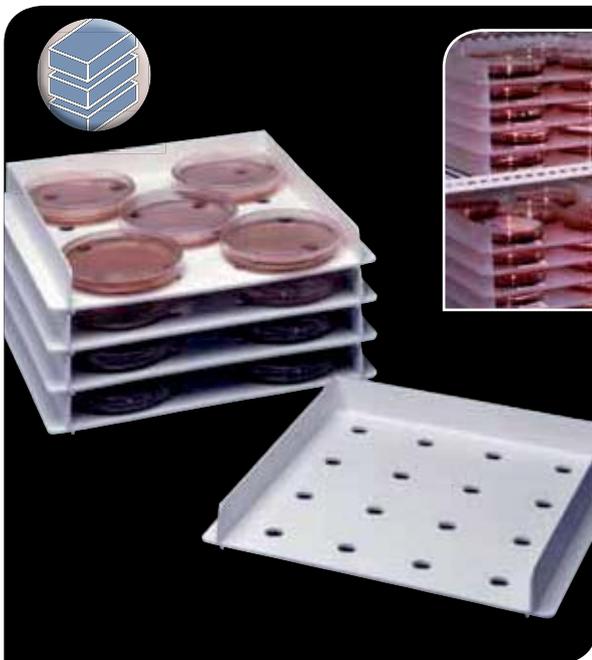
Access slots under each stack of contact plates allows a stack of plates to be safely removed from the rack using a secure ring that places a finger under the bottom plate and thumb on top of the lid if the top plate. A large centre divider provides space for labelling and incorporates a handle.

All parts are moulded with white polypropylene and are steam **autoclavable** at 121 °C.

Racks are supplied individually bagged, flat, and can be easily assembled (instructions included).

code	dimensions mm	case quantity	case weight	case volume
H-610	266 x 165 x 178	1	0.35	0.002





### Stackable Petri dish incubation tray

This polypropylene tray increases overall capacity of incubator. Designed to hold five 100 mm diameter or fifteen 60 mm diameter Petri dishes, it's provided with two large label areas for critical sample identification by marker or label.

With 16 vents.

Not autoclavable.

code	dimensions mm	bag quantity	bag weight	bag volume
<b>H-615</b>	251 x 237 x 35	3	0.97	0.0082



### Microtitre plates, sterile

Standard 96 well-plate made of crystal-clear polystyrene.

Three models with different well shapes are available.

In general terms, flat bottom plates are used when optical reading is required (for example, using a spectrophotometer); rounded and conical bottom plates are very useful when total recovery of the sample is required; they also offer better performance than flat bottom plates for sample separation through centrifugation.

Some applications:

- Diluting
- Serial sample preparation
- Protein precipitation
- Hemagglutination
- Conical bottom plates may be used for complement fixation
- Flat bottom plates are also suitable for cell growth in suspension, and for ELISA applications, when there is no need of a pre-treated plate (which enhances the antigen-antibody adhesion to the surface of the plate)

**NEW  
NON STERILE**

Polystyrene lids are supplied separately, see code **900015**.

Those plates can also be covered using the sealing mat or the adhesive sealing film presented on page 60.

Available in two versions: non sterile in bags of ten units, or sterilized and individually wrapped.

Plate dimensions: 127.7 x 85.8 mm.

Well plate estimate volume:

**900010**: 0.281 ml.

**900011**: 0.404 ml.

**900012**: 0.219 ml.



code	description	sterile	case quantity	case weight	case volume
<b>900010</b>	microtitre plate "U" form	<b>RADIATION</b>	50	2.33	0.014
<b>NEW 900010.1</b>	microtitre plate "U" form	non	5 x 10	2.33	0.014
<b>900011</b>	microtitre plate "L" form	<b>RADIATION</b>	50	2.33	0.014
<b>NEW 900011.1</b>	microtitre plate "L" form	non	5 x 10	2.33	0.014
<b>900012</b>	microtitre plate "V" form	<b>RADIATION</b>	50	2.33	0.014
<b>NEW 900012.1</b>	microtitre plate "V" form	non	5 x 10	2.33	0.014
<b>900015</b>	lid for microtitre plate	<b>RADIATION</b>	50	1.15	0.014
<b>NEW 900015.1</b>	lid for microtitre plate	non	5 x 10	1.15	0.014



## CRYOINSTANT: Porous beads for microbiological culture preservation

CryoInstant is an excellent preservation system for storing microbiological culture (for example fungus on sporulation phase), consisting on **2 ml cryovials** containing 25 porous beads and cryopreservative-added broth.

With these vials we can:

- Get a **perfect freezing storage system**.
- Obtain up to **25 replicates** from the original microorganism, to use them during many years
- **Ease the recovery** of the **stored strain** streaking an inoculated bead directly onto solid media
- **Prevent changes** and **repetitive thawing / freezing** of the rest of beads
- **Avoid the growth** of **ice** when recovering,
- **Improve recovery rates** of frozen cultures by adding cryopreservative to broth
- **Minimise the risk of cross contamination**,
- **Save space** in the freezers when storing.

The external thread cryovials are made of polypropilene. Their smooth inner surface prevents from contamination. Their caps embody a silicone washer to ensure a positive leakproof seal. Tubes and caps withstand up to  $-190^{\circ}\text{C}$ .

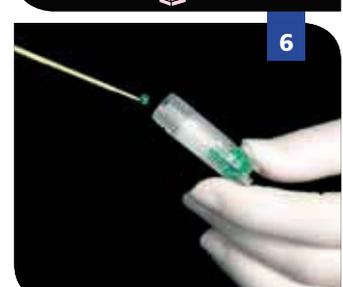
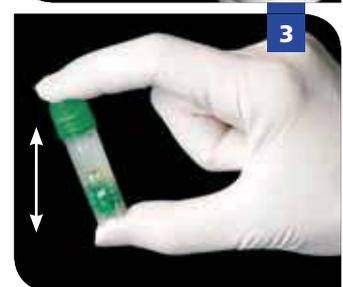
In order to ease the classification of the samples, we offer the possibility to get cryovials with caps and beads in five different colours: every code displays caps and beads from a single and same colour (excepting code **409113/6**, which is an assortment), allowing a fast and easy identification of the samples, and providing a system whereby users are able to code different bacterial species, different samples, different laboratories,... And even more: with colour coded inserts (described on page 202) a further classification can be made.

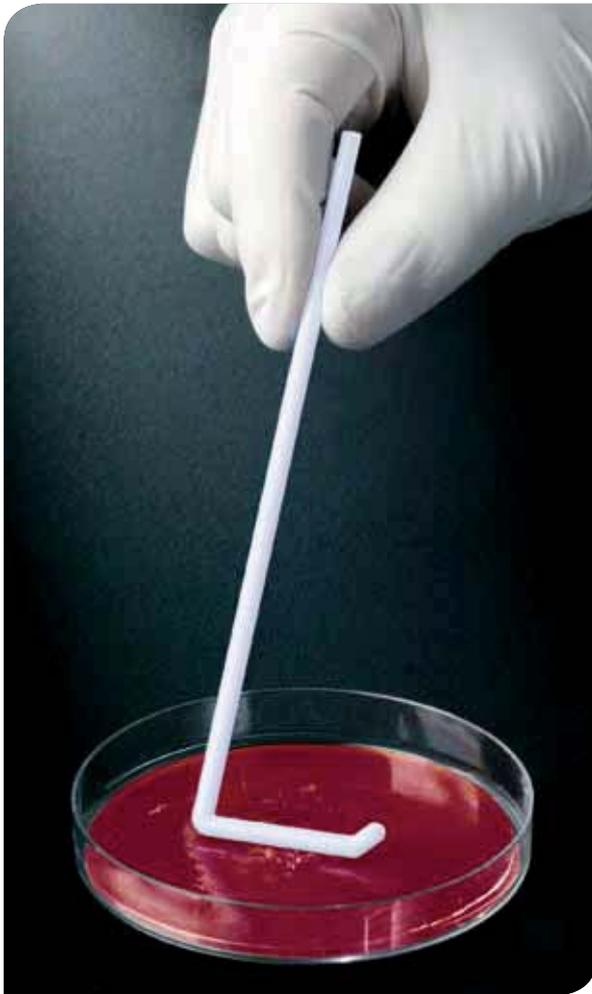
Cryovials are presented in carton boxes (resistant to  $-100^{\circ}\text{C}$ ; dimensions: 150x150x55 mm) with 100 units; boxes are furtherly described in page 212. Each box is supplied plastic-wrapped and labelled with code reference, batch, expiration date and specifying the colour of the caps and beads.

code	beads and cap colour	case quantity	case weight	case volume
<b>409113/1</b>	white	100	0.22	0.001
<b>409113/2</b>	blue	100	0.22	0.001
<b>409113/3</b>	yellow	100	0.22	0.001
<b>409113/4</b>	red	100	0.22	0.001
<b>409113/5</b>	green	100	0.22	0.001
<b>409113/6</b>	assorted: 5 colours x 20 cryovials	100	0.22	0.001

### Way of use:

- 1 Take the sample from the strain with a loop (please see our loops on page 31),
- 2 Inoculate the cryovial by putting the loop in contact with the broth,
- 3 Close the cryovial and shake it gently in order to permeate the strain into the beads,
- 4 Extract the cryopreservative-added broth with a Pasteur pipette (see our plastic pipettes on pages 191-195),
- 5 Close the cryovial and take it to the freezer;
- 6 Every time we need to reproduce the strain, we will take a bead with a loop or a forceps.
- 7 We will put it down on a Petri dish with culture medium, attempting to put in contact all the surface of the bead with the medium.





### Digiralsky spreader. Sterile

Designed for surface spreading. Made of white polystyrene. Radiation sterilized.

Total length: 149 mm, base length: 40 mm. Base length allows spreading liquid samples over any type of Petri dish and avoids contact with the dish walls.

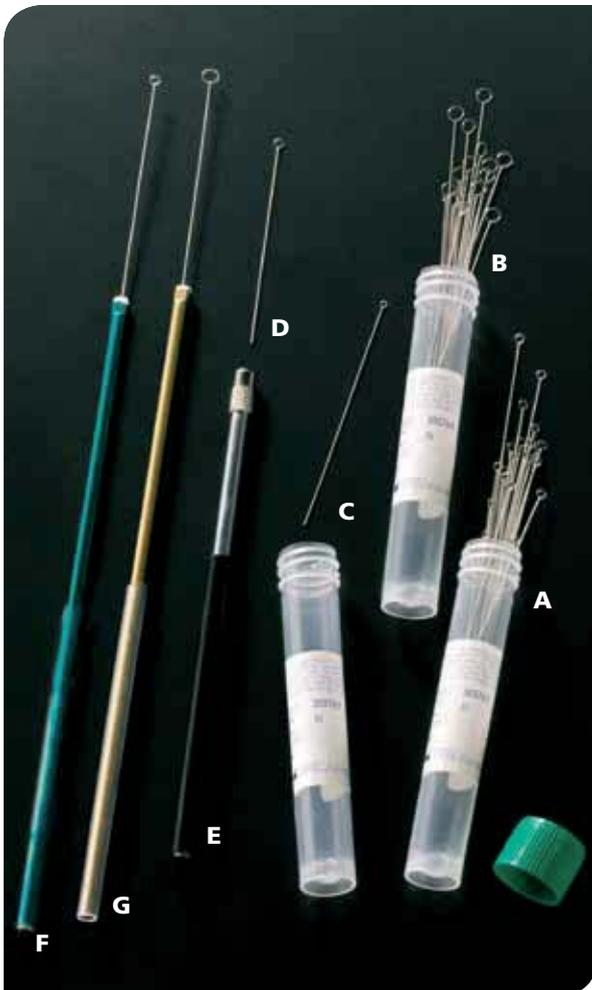
The curved Spreader extremity and rounded corners avoid damaging media surface while spreading.

The tip bent and rounded edges minimize the possibility of breakage of the solid medium during extension.

Supplied individually wrapped or 5 unit bagged, to allow their use in places where sterilization before use is not possible (for instance when samples are collected far from the lab).

Available in peel-pack containing 1 or 5 units, marked with code, expiry date and lot.

code	presentation	case quantity	case weight	case volume
<b>200500</b>	5 units peel-pack	200 x 5	3.6	0.024
<b>200510</b>	1 unit peel-pack	500	3.1	0.020



### Nichrome wire loops

Nichrome wire loops for microbiology.

Comparing them to the traditional loops made of platinum and rhodium, the nickel and chrome alloy results much more competitive in terms of durability and price. Moreover, it offers a totally smooth surface, and rapid cooling after heat sterilisation.

#### Non-calibrated loops (mod. A and B):

Non-calibrated nichrome loops, without holder, saving money and storage space. Supplied in groups of 25 units, in one tube, specifying code, description, and lot.

#### Calibrated loops (mod. C and D):

Calibrated nichrome loops. Supplied individually in a capped tube, labeled with the code, description and lot.

Calibrated and non-calibrated loops are easily joinable to the PVC and aluminium holder (**mod. E**) with an easy and fast screw movement.

Dimensions of the aluminium holder 150 mm.

#### Non-calibrated loops with holder (mod. F and G):

Non-calibrated loop made of nichrome alloy.

Light aluminium holder (**mod. G**, golden colour, **mod. F**, green) partially protected by a transparent, insulating, non-skid plastic. Dimensions, 275 mm.

mod.	code	description	quantity
A	<b>302762</b>	Non-calibrated loop 2 mm Ø	25
B	<b>302764</b>	Non-calibrated loop 4 mm Ø	25
C	<b>302771</b>	Calibrated loop 1 µl	1
D	<b>302772</b>	Calibrated loop 10 µl	1
E	<b>302780</b>	Loop holder, PVC and aluminium	1
F	<b>302792</b>	Non-calibrated loop (2 mm Ø) with holder	5
G	<b>302794</b>	Non-calibrated loop (4 mm Ø) with holder	5

### Sterile calibrated loops. Ergonomical

Flexible inoculating loops made of polystyrene.  
Sterilized by radiation.

Ergonomic loops, providing:

- a large handle.
  - a larger surface for users' fingers.
  - a very thin tip for colony counting.
- 2 sizes: 1  $\mu\text{l}$  (yellow) and 10  $\mu\text{l}$  (blue).

This is not a precision product.

code	$\mu\text{l}$	packaging	case quantity	case weight	case volume
<b>302740</b>	1	individual flow-pack	2 x 600	3.60	0.029
<b>302741</b>	1	5 units / flow-pack	2 x 1,000	5.00	0.029
<b>302742</b>	1	10 units / flow-pack	2 x 1,500	6.60	0.029
<b>302750</b>	10	individual flow-pack	2 x 600	3.60	0.029
<b>302751</b>	10	5 units / flow-pack	2 x 1,000	5.00	0.029
<b>302752</b>	10	10 units / flow-pack	2 x 1,250	5.70	0.029



### Sterile calibrated loops

Manufactured in flexible polystyrene.

Sterilized by radiation.

Two sizes available: 1  $\mu\text{l}$  and 10  $\mu\text{l}$ .

Very flexible loop, with rounded tip.

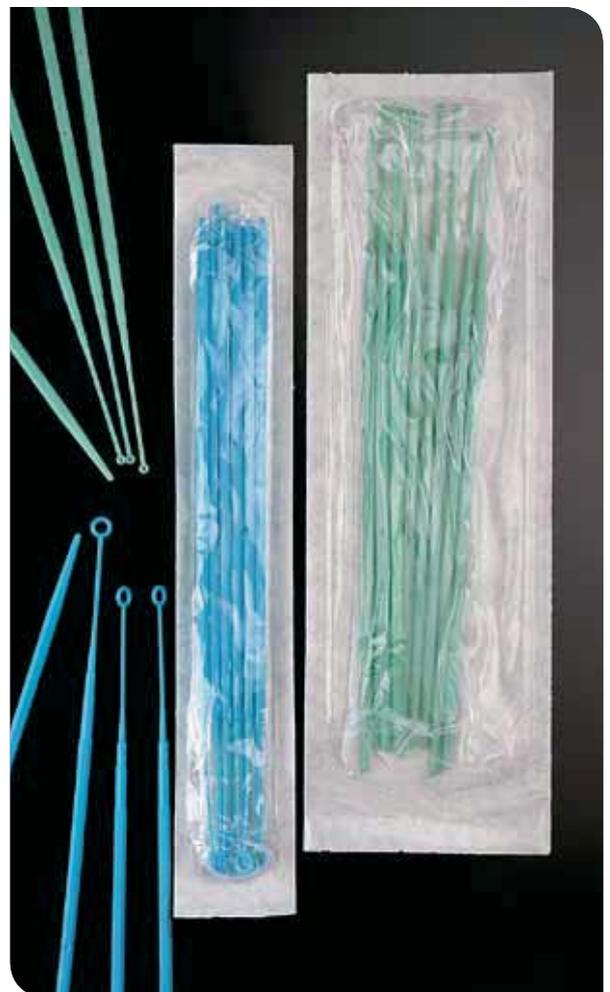
Not recommended for colony counting.

For this purpose we recommend our loops code **302740** and following.

Sterile inoculating loops.

Batch and expiry date printed on the bag.

code	$\mu\text{l}$	packaging	colour	case quantity	case weight	case volume
<b>302703</b>	1	10 ud./peel-pack	green	4 x 500	5.00	0.012
<b>302723</b>	1	20 ud./peel-pack	green	4 x 1,000	7.40	0.039
<b>302704</b>	10	10 ud./peel-pack	blue	4 x 500	5.00	0.037
<b>302724</b>	10	20 ud./peel-pack	blue	4 x 1,000	7.80	0.039





### Sterile culture tubes in polystyrene

Tubes supplied with either a two position ribbed polyethylene cap, which can be left loose for aerobic work or sealed for anaerobic cultures.

They are biologically inert, exempt from mold release agents, and withstand up to 1,400 g and 70°C.

Packaged in self-standing resealable zip-lock bags of 125 units.

code	dimensions mm	case quantity	case weight	case volume
<b>300807</b>	12 x 75	8 x 125	4.33	0.033
<b>300808</b>	17 x 100	8 x 125	7.14	0.060



See our glass tubes on chapter 7. Tubes and Microtubes



### 15 ml conical tubes, sterile

CE (IVD)

Tubes made of transparent, copolymer polypropylene.

Green caps made of polyethylene with an internal joint which ensures leakproofness.

Tubes feature a solvent resistant white panel and black graduations for use both for clear or dark samples.

**DNase, RNase, endotoxins and metal free.** They are sterile by radiation and withstand temperatures down to -90°C.

Resistance to centrifugation: **17,000 g.**

Autoclavable tube (the joint of the cap is not autoclavable) Two options available:

- Supplied in bags of 50 units. Bags printed with instructions of use.
- Supplied in fiber racks of 25 ml. Racks with holding grip, numbered grid and instructions printed on the base. Racks fold flat for storing (when empty) or recycling. Every case contains ten bags with two racks.

code	description	case quantity	case weight	case volume
<b>409920</b>	bag 50 units	10 x 50	4.12	0.032
<b>NEW 409920R</b>	rack 25 units	10 x (2 x 25)	4.12	0.032



### EUROTUBO® 15 ml conical tubes

CE (IVD)

Tubes made of transparent polypropylene, conical bottom, suitable for centrifugation tests in immunology, microbiology, etc. Continuous thread, external moulded graduations in 0,5 ml increments.

Frosted area (55 x 10 mm).

Blue cap in polyethylene with hermetical closure thanks to its internal elastic obturation.

Code **429910** is autoclavable (121°C) with the cap not being closed, just placed on the thread. The codes 429920 and 429946 autoclave not recommended, as they have been sterilised by radiation.

Code **429920** is supplied sterile in 25 microns polyethylene bags (100 units).

The bag specifies IVD, lot number, expiration date,...

Code **429946** is supplied sterile in individual bags. Resistance: **5,000 g**.

Length (with cap): 120 mm. External mouth diameter: 17 mm.

External cap diameter: 20,9 mm.

code	description	case quantity	case weight	case volume	cases per pallet
<b>429910</b>	non sterile	500	3,8	0,029	60
<b>429920</b>	<b>STERILE</b>	5 x 100	3,9	0,029	60
<b>429946</b>	<b>STERILE</b> individually bagged	500	3,9	0,038	54

Please find racks for these tubes in Chapter 10. Sample Storage and Cryogenics.

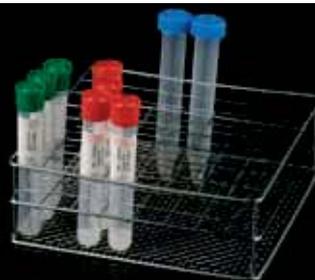
#### POLYPROPYLENE RACKS:

- W-016
- W-013
- 19566



#### METAL RACKS:

- A-202
- A-212
- A-222
- A-242





### EUROTUBO® 12 ml screw cap tubes, round bottom

CE (IVD)

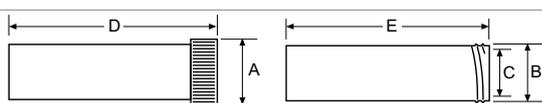
Made of **autoclavable** (121°C) transparent polypropylene or polystyrene. Green cap made of high density polyethylene. Dimensions: 15 x 102 mm. The external skirt allows the tubes to remain **free-standing**. Supplied screwed. Recommended volume: 12 ml. The sterile model (ethylene oxide) is supplied individually in flow-pack bag, with indication of batch, expiration date, etc... according to the guidelines for sterile products. Resistance to centrifugation: **PS: 7,500 g. PP: 15,000 g.**

**Attention:** For autoclaving, the cap should be loose on the thread and not tightly fitted.

mod.	code	description	maximum volume ml	volume recom. ml	case quantity	case weight	case volume	cases pallet
1	<b>301402</b>	<b>STERILE</b> polystyrene individually wrapped	14.4	12	6 x 250	13.00	0.096	20
2	<b>301403</b>	polystyrene	14.4	12	6 x 250	12.00	0.082	24
3	<b>401402</b>	<b>STERILE</b> polypropylene individually wrapped	14.2	12	6 x 250	11.80	0.096	20
4	<b>401403</b>	high transparency polypropylene	14.2	12	6 x 250	11.00	0.082	24

#### Dimensions (±0,09):

code	external cap Ø mm A	external tube Ø mm B	internal tube Ø mm C	length with cap mm D	length without cap mm E
<b>301402, 301403</b>	20.9	16.3	14.4	103.9	102.5
<b>401402, 401403</b>	20.9	16.2	14.3	102.9	101.5



### 50 ml conical high resistance tubes. Sterile

CE (IVD)

In transparent polypropylene whit fitted green polyethylene screw cap, featuring an internal elastic obturator.

**DNase, RNase, endotoxins and metal free.**

Black graduations every 5 ml and moulded mark at 50 ml, with white labelling area.

Available skirted (freestanding) and non skirted.

Dimensions: 29.6 x 114.6 mm.

Skirted tube can withstand centrifugation up to **10,000 g**. Non skirted, up to **20,000 g**. Sterile.

In case autoclaving is necessary, cap should not be tightly screwed so air can pass through.

Supplied capped in bags of 50 units.

Bags are printed with instructions for use and feature a double closure: a first tamper evident seal that helps guaranteeing sterility, and a secondary zip-lock, resealable closure.

code	description	case quantity	case weight	case volume
<b>409922</b>	non skirted	10 x 50	8.16	0.079
<b>409923</b>	skirted	10 x 50	8.80	0.079



## EUROTUBO® 50 ml conical tubes

CE (IVD)

Tubes made of transparent polypropylene, conical bottom, suitable for centrifugation tests in immunology, microbiology, etc. Perfect to analyse Koch bacillus. Continuous thread, external moulded graduations in 5 ml increments. Blue cap in high density polyethylene with hermetical closure thanks to its internal elastic obturation. Skirted and non skirted versions, sterilised by radiation and non sterilised versions.

Sterile codes are either supplied in individual bags (codes **429926**, **429927**), in bags of 100 units (codes **429926.10**, **429927.10**), or in bags of 25 units (codes **429926.25**, **429927.25**) and resist up to **7,000 g**. Autoclave not recommended as they have been ionised. Non sterile codes withstand up to **12,000 g** and are autoclavable (121 °C) with the cap loose on the thread and not tightly fitted.

Every version is supplied capped, excepting code **429900SP**, which is supplied uncapped, with the cap in a separated bag.

code		description	external cap Ø mm	internal tube Ø mm	external tube Ø mm	length with cap mm	case quantity	case weight	case volume	cases per pallet
<b>429900</b>		non skirted	34.4	27.2	29.5	117.5	500	7.9	0.075	24
<b>429900SP</b>		non skirted, unscrewed cap	34.4	27.2	29.5	117.5	500	7.9	0.075	24 <b>NEW</b>
<b>429901</b>		skirted	34.4	27.2	29.5	117.5	500	8.5	0.082	24
<b>429926</b>	<b>STERILE</b>	non skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.2	0.082	24
<b>429926.25</b>	<b>STERILE</b>	non skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.2	0.082	24 <b>NEW</b>
<b>429926.10</b>	<b>STERILE</b>	non skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	7.9	0.082	24
<b>429927</b>	<b>STERILE</b>	skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.8	0.082	24
<b>429927.25</b>	<b>STERILE</b>	skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.8	0.082	24 <b>NEW</b>
<b>429927.10</b>	<b>STERILE</b>	skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	8.5	0.082	24



Please find racks for these tubes on Chapter 10. Sample Storage and Cryogenics.

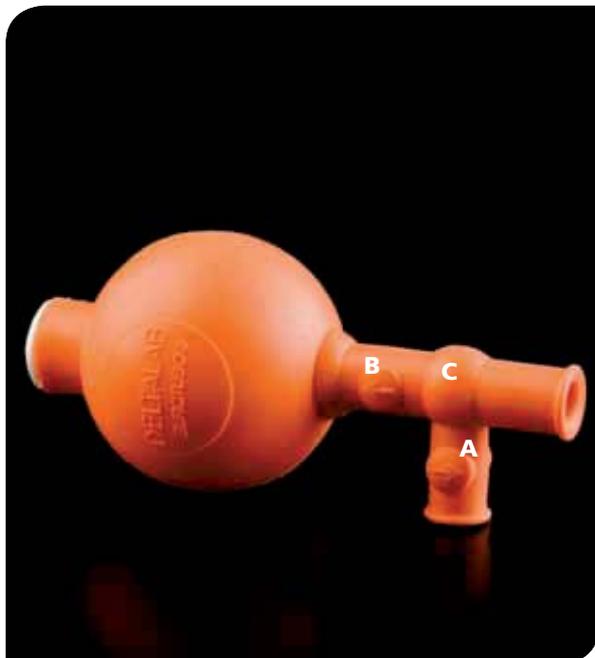
### POLYPROPYLENE RACKS:

- W-018
- 19568
- 19570

### METAL RACKS:

- R-292 • R-293
- R-281 • R-282
- R-283





1. Evacuate the air by pressing the bulb, as the drawing indicates.



2. Intake by pressing on point B (↑)



3. Drain the liquid by pressing on point A (↓)



4. Blow out the pipette by pressing as the drawing indicates (point C).

### EUROTUBO® Pipetting bulb

This one-handed design is the simplest safety pipette filler to use available. Manufactured in natural orange rubber.

Approx. drawn capacity: 25 ml.

Single hand use, only two operating points. Evacuate via the automatic valve.

Standard model, accommodates all pipettes. Ability to clean inside of bulb by removing patented valve and rinsing out.

code	description	bag quantity	bag weight	bag volume
19200	pipetting bulb	1	0.10	0.002



### Pipetting bulb

Made of rubber.

Used to avoid mouth pipetting and contamination risk.

Can be opened, cleaned and **autoclaved**.

Ideal for Wintrobe and Westergren pipettes.

code	description	bag quantity	bag weight	bag volume
19201	red pipetting bulb	1	0.10	0.001



Pipette pump support rack  
See Chapter 11. Safety.

### Pipette pumps

Several models for various pipette volumes.

Designed for fast and efficient pipetting with simple, one handed operation.

Pipettes fit smoothly into collar.

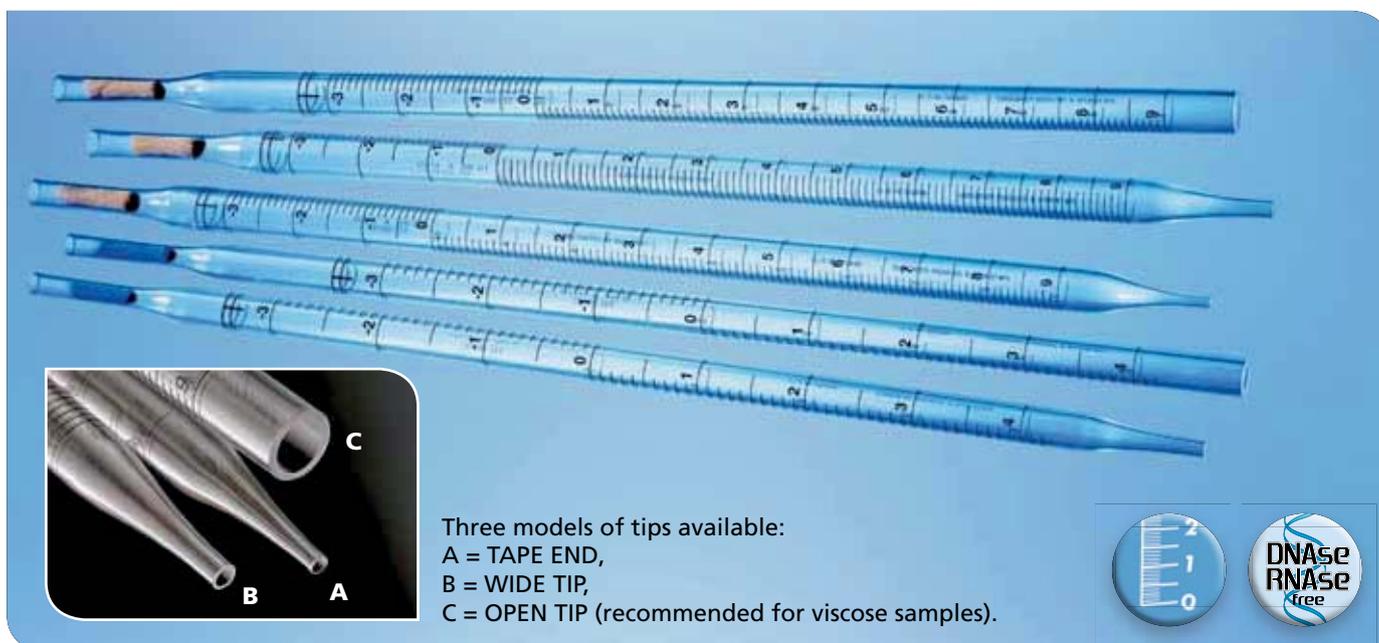
Rotate the knurled thumb wheel on the side for precision filling or dispensing, and press the fast release lever for quick emptying.

Easy to use and easily disassembled for cleaning.

Sizes are colour coded.

Pipette pumps resist acids and alkalis.

code	description	colour	bag quantity	bag weight	bag volume
W-100	up to 2 ml	blue	1	0.05	0.0001
W-110	up to 10 ml	green	1	0.05	0.0001
W-120	up to 25 ml	red	1	0.05	0.0001



Three models of tips available:  
 A = TAPE END,  
 B = WIDE TIP,  
 C = OPEN TIP (recommended for viscose samples).



## Sterile serological pipettes

Single use, made of crystal polystyrene. Accuracy > 98 %.

Sterilised by radiation. Made in **one piece** for an optimum precision, except code **90043** (50 ml).

No liquid retention: as tip is not sealed, liquid is not held at the joint. Total dispensing guaranteed.

Non pyrogenic (ISO 10993-11), non cytotoxic (ISO 10993-5) and non haemolytic (ISO 10993-4). **DNase and RNase free.**

Volumes range from 1 to 25 ml. Pipettes include a coloured cotton plug for better identification. The peel-pack have a **fiber-free** packaging including a strip for easy opening. Black graduations are bright, black and **permanent**. 5, 10 and 25 ml models have negative graduations for extra capacity, and a second reverse scale (ascending and descending).

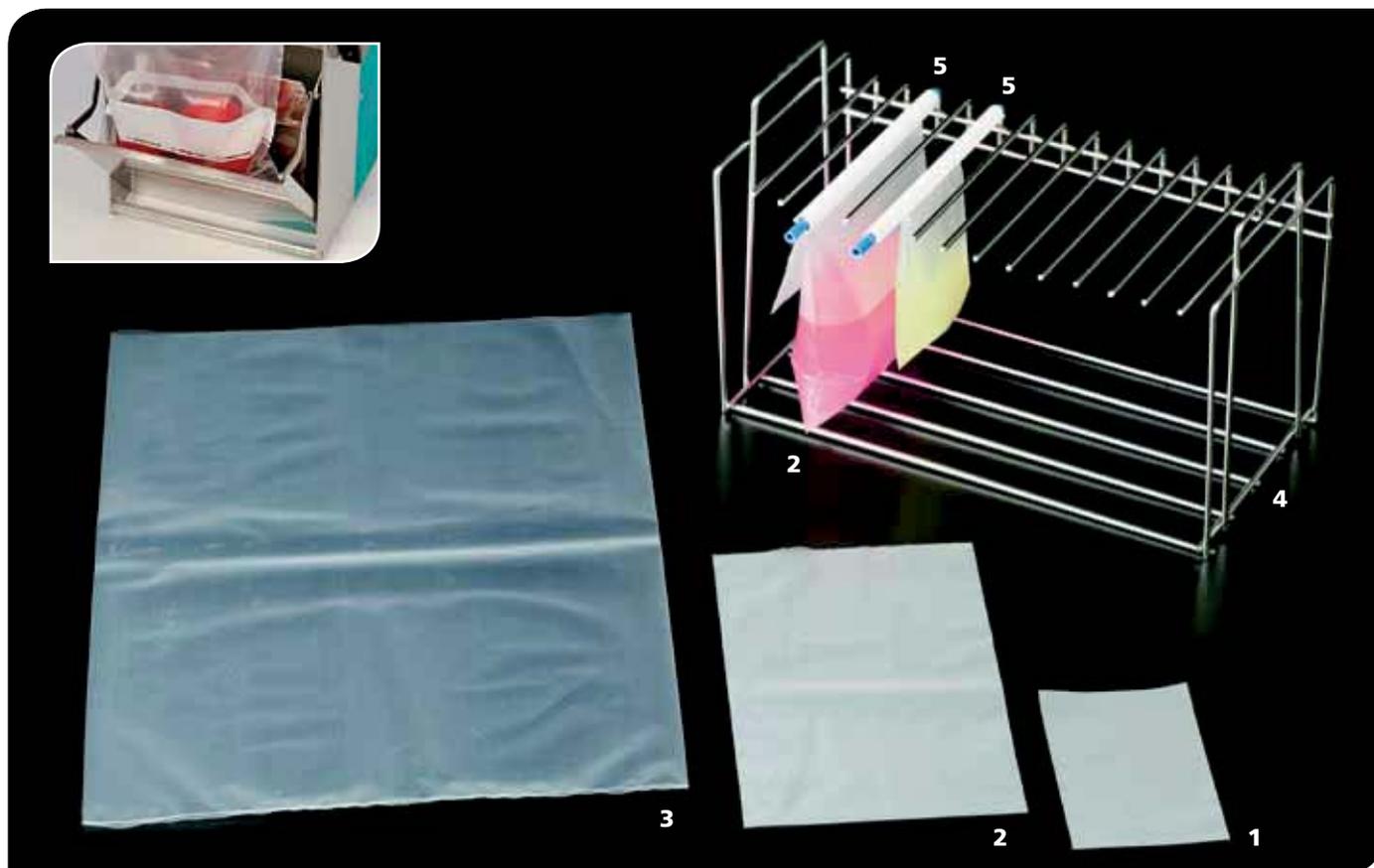
code	capacity ml	presentation	cotton colour	case quantity	tip	graduation ml	negative graduation ml	total capacity ml	case weight	case volume
900030	1	1 peel pack	●	4 x 500	A	0/0.9	until -0.3	1.3	10.10	0.072
900031	1	bag of 25	●	4 x 1,000	A	0/0.9	until -0.3	1.3	14.00	0.072
900130	1	1 peel pack	●	4 x 500	C	0/0.9	until -0.3	1.3	10.10	0.072
900131	1	bag of 25	●	4 x 1,000	C	0/0.9	until -0.3	1.3	14.00	0.072
900032	2	1 peel pack	●	4 x 500	A	0/1.8	until -0.4	2.4	11.30	0.072
900033	2	bag of 25	●	4 x 1,000	A	0/1.8	until -0.4	2.4	17.20	0.072
900133	2	bag of 25	●	4 x 1,000	C	0/1.8	until -0.4	2.4	17.20	0.072
900034	5	1 peel pack	●	4 x 250	A	0/4	until -3	8	12.20	0.072
900038	5	bag of 25	●	4 x 375	A	0/4	until -3	8	15.10	0.072
900144	5	1 peel pack	●	4 x 250	B	0/4	until -3	8	12.20	0.072
900134	5	1 peel pack	●	4 x 250	C	0/4	until -3	8	12.20	0.072
900036	10	1 peel pack	●	4 x 200	A	0/9	until -3	13	11.20	0.072
900037	10	bag of 25	●	4 x 250	A	0/9	until -3	13	12.80	0.072
900146	10	1 peel pack	●	4 x 200	B	0/9	until -3	13	11.20	0.072
900147	10	bag of 25	●	4 x 250	B	0/9	until -3	13	12.80	0.072
900136	10	1 peel pack	●	4 x 250	C	0/9	until -3	13	11.20	0.072
900137	10	bag of 25	●	4 x 250	C	0/9	until -3	13	12.80	0.072
900041	25	1 peel pack	●	4 x 100	A	0/23	until -10	35	11.20	0.072
900042	25	bag of 10	●	4 x 100	A	1/5	until -2.6	27.6	11.20	0.072
900043	50	1 peel pack	●	200	A	1/2	until -5	55	6.70	0.072

See our plastic Pasteur pipettes in Chapter 9. Liquid Handling



See our Chapter 10. Sample storage and Cryogenics





### Sterile bags for STOMACHER® blenders

Made of polyethylene. Thickness 7-8/100 mm. Ideal for mixing and blending bacterial samples or when collecting toxic substances from food, fabrics, etc... Irradiation sterilised. Supplied in bags of 25 units.

Code **15006** is a stainless steel rack for 14 bags. Side handles incorporated.

Code **15007** is a clip to adjust bags onto the rack.

Also available non sterile versions. Please ask for the minimum order quantity and delivery time. Add an "S" at the end of the code.

mod.	code	description	capacity mm	case quantity	case weight	case volume
1	<b>15001</b>	bag 100 x 155 mm	80	2,500	4.80	0.010
2	<b>15003</b>	bag 180 x 300 mm	400	500	3.78	0.010
3	<b>15004</b>	bag 380 x 580 mm	3,500	400	11.70	0.040
4	<b>15006</b>	rack 390 x 200 x 240 mm	-	1	1.10	0.140
5	<b>15007</b>	clips	-	10	0.20	0.001



### Tissue grinders-homogenisers

Borosilicate glass vessels and serrated plunger. Tips: head made of TEFLON, shaft made of stainless steel. Fully **autoclavable**.

The distance between the glass and the plunger is  $\pm 200 \mu\text{m}$ .

**Glass vessels:**

code	volume ml	body Ø mm	height mm	quantity	weight	volume
<b>196102</b>	2	8	120	1	0.01	0.001
<b>196105</b>	5	12	132	1	0.01	0.001
<b>196110</b>	10	16	150	1	0.02	0.001
<b>196115</b>	15	19	155	1	0.03	0.001

**Plunger-serrated tips:**

code	for tube of mm	height mm	quantity	weight	volume
<b>196302</b>	2	230	1	0.06	0.001
<b>196305</b>	5	235	1	0.06	0.001
<b>196310</b>	10	270	1	0.06	0.001
<b>196315</b>	15	270	1	0.06	0.001



### Sterile Whirl-Pak® blender bags with and without filter

Bags made of a low density polyethylene blend, resulting in an **extra-resistant and transparent bag**.

Leakproof closure with several metallic rounded sticks (see how to use it on figures on page 113).

Codes **200373**, **200374** and **200376** feature a **filter layer** of finely **perforated polyethylene**, to separate the liquid and solids. This allows the **easy pipetting of the sample**.

There are 6.45 holes per cm<sup>2</sup>, each one measuring 330 microns diameter.

Bags with a **one-piece seam**, avoiding the possible risks of the loss of the corners bags.

They feature a write-on strip (excluding codes **200342** y **200343**).

Ethylene Oxyde sterilised. Suitable for alimentary use.

mod.	code	description	capacity ml	dimensions cm	tickness microns	case quantity	case weight	case volume
1	<b>200342</b>	standard bag	390	13 x 19	76	500	2.50	0.0195
1	<b>200343</b>	standard bag	720	15 x 23	102	500	3.75	0.0195
2	<b>200351</b>	bag with write-on strip	1,650	19 x 30	102	500	6.13	0.0203
3	<b>200373</b>	bag with filter and write-on strip	720	15 x 23	102	250	3.50	0.0170
3	<b>200376</b>	bag with filter and write-on strip	1,650	19 x 30	102	250	4.10	0.0170
3	<b>200374</b>	bag with filter and write-on strip	2,041	19 x 38	102	250	4.90	0.0203



### Sterile homogeniser full size filter bag

Bags incorporate a full size filter dividing them into two identical pouches. Insert the sample in one compartment. After sample process, solid particles remain in their original compartment while liquid has filtered into the second compartment, thus allowing a convenient liquid pipetting. Bag capacity: 2,000 ml. Sterilised by irradiation. Graduated.

code	packaging	case quantity	case weight	case volume
<b>15005</b>	195 x 300 mm in bags of 10 units	500	7.2	0.04

## Surfaces sampling kits

Designed according to the international standard **ISO 18593**, which is taken as a reference on European Directives and Rules about **Microbiology of food and animal feeding stuffs - Horizontal methods for sampling techniques from surfaces** (p.ex., Rule nr. 2073/2005, Directives 64/433/CEE, 71/118/CEE...).

Adequate not only over surfaces but with instruments (quartering, cleaning...).

**Two options: with sponge (code 200396), or with swab (code 200397):**

Code **200396** includes:

- A Whirl-Pak bag containing a sterile sampling sponge.
- A disposable sterile template, supplied in a flow-pack bag.
- A bottle containing 40 ml. sterile solution De-Neutralising.

Way of use:

- Put on a pair of sterile gloves (not included).
- Open the bag containing the sponge.
- Swab the carcass with the sponge through the template as described on the rule.
- Return the sponge to the bag and add the De-Neutralism solution.
- Close the bag and sent it to a laboratory for testing (see how to use and close Whirl-Pak bags on page 113).

Code **200397** includes:

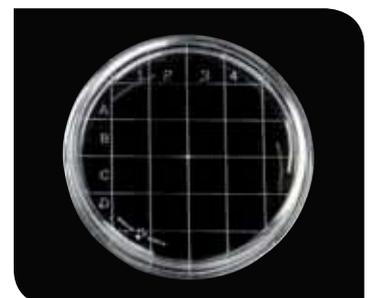
- A sterile cotton swab (11 mm diameter head), with a wooden stick, individually packed in flow pack.
- A disposable sterile template, supplied in flow-pack.
- A bottle containing 40 ml sterile solution De-Neutralising.

Way of use:

- Put on a pair of sterile gloves (not included).
- Place the template over the surface to sample.
- Moisten the swab with the De-Neutralism solution, and rub it up and down ten times over the area set by the template.
- Put the swab into the bottle with the remaining solution and split it up, leaving the head inside the bottle.
- Close the bottle and send it to the laboratory at 4°C.

Please, ask for our technical data sheet

code	description	case quantity	case weight	case volume
<b>200396</b>	surface sampling kit with sponge	20	2.45	0.012
<b>200397</b>	surface sampling kit with swab	20	2.35	0.012



See Contact plates  
on page 27

## Meat or turkey carcass sampling kit

Designed according to the international standard **ISO 17604**, which is taken as a reference on European Directives and Rules about **Microbiology of food and animal feeding stuffs - Carcass sampling for microbiological analysis** (p.ex., Rule nr. 2073/2005, nr. 1688/2005, Decision 2006/668/CE...).

**Two options: with sponge (200393), or with swabs (200394):**

Code **200393** includes:

- A bottle containing 25 ml sterile buffered peptone water.
- A Whirl-Pak bag containing a sterile sampling sponge.
- A disposable sterile template (sampling area of 10 x 10 cm), supplied in a flow-pack bag.

Way of use:

- Put on a pair of sterile gloves (not included).
- Open the bag containing the sponge and then pour half of the peptone water inside in order to moisten the sponge.
- Swab the carcass with the sponge through the template in those places specified on the rule (usually four).
- Return the sponge to the bag and add the balance of the peptone water.
- Close the bag and send it to a lab (see how to close Whirl-Pak bags on page 113).

Code **200394** includes:

- A sterile bottle containing 10 ml buffered peptone water.
- Two sterile cotton swabs (11 mm diameter head), with a wooden stick, individually packed in flow pack.
- A disposable sterile template, supplied in a flow-pack bag.

Way of use:

- Put on a pair of sterile gloves (not included).
- Place the template over the area of the carcass to sample.
- Moisten the swab with the peptone water, and rub it over the surface set by the template (100 cm<sup>2</sup>).
- Put the swab into the bottle with the remaining peptone water and split the stick up, leaving the head inside the bottle.
- Rub the dry swab over the same area, put it on the bottle with the first swab, and split the stick up, leaving the head inside the bottle.
- Close the bottle and send it to a lab inside a secondary container (see page 118).

The template is available separately (code **200393P**).

Please, ask for our technical data sheet

code	description	case quantity	case weight	case volume
<b>200393</b>	carcass sampling kit with sponge	20	2.25	0.012
<b>200394</b>	carcass sampling kit with swab	20	2.10	0.012
<b>200393P</b>	template	20	0.75	0.005





### Sterile jars for water sampling

Transparent squared jars made of PET (see its properties in page 299).

Wide mouth and grips at two sides, easing the sample collection. Tamper evident red cap made of polypropylene with internal joint made of poloxan. Sterilised by radiation.

Each bottle is labelled specifying description, code, lot, and expiry date.

Internal mouth diameter mm: 55

Jar weight (gr):

500 ml jar: 44 g - 1,000 ml jar: 65 g - 1,500 ml jar: 72 g

#### Available with or without thiosulfate sodium

**With liquid sodium thiosulfate (24 mg/l):** Ideal to analyse water meant for human consumption, swimming pools, and any other water where chlorine may modify the composition of the sample while being transported.

**Empty, without thiosulfate:** Ideal to sample water for physico-chemical analysis, as well as for other sampling requiring sterile bottles.

mod.	code	description	sterile	capacity ml	case quantity	case weight	case volume	pallet quantity
1	282340	jar with thiosulfate	RADIATION	500	44	2.68	0.036	1,584
2	282341	jar with thiosulfate	RADIATION	1,000	48	3.72	0.076	960
3	282350	jar without thiosulfate	RADIATION	500	44	2.68	0.036	1,584
4	282351	jar without thiosulfate	RADIATION	1,000	48	3.72	0.076	960
5	282352*	jar without thiosulfate	RADIATION	1,500	48	4.05	0.110	960

\*Minimum ordering Quantity: 1 pallet

We can supply any other concentration according to each country's standards.

We can also dose thiosulfate in other jars from our catalogue.

Optionally presented in individual bags if requested.



Please ask for customized labels



See Industrial Funnels on Chapter 13. Laboratory and industrial packaging.



### Sterile bottles for water sampling

Rectangular body and cap made of polyethylene. The minor sides are gripped for a better handling. The larger sides are flat for labelling. Tamper evident red cap with an internal security joint. Hermetical closure. Sterilised by ionisation.

Each bottle is labelled specifying description, code, lot, and expiry date.

Dimensions:

500 ml bottle: 83 x 65 x 135 mm - 1,000 ml bottle: 83 x 65 x 235 mm.

Mouth diameter intern: 28 mm.

Unitary weight (empty bottle):

500 ml bottle: 40 g - 1,000 ml bottle: 61 g.

#### Available with or without thiosulfate sodium

**With liquid sodium thiosulfate:** Ideal to analyse water meant for human consumption, swimming pools, and any other water where chlorine may modify the composition of the sample while being transported.

**Empty, without thiosulfate:** Ideal to sample water for physico-chemical analysis, as well as for other sampling requiring sterile bottles.

code	description	sterile	capacity ml	case quantity	case weight	case volume	pallet quantity
282320	bottle with thiosulfate	<b>RADIATION</b>	500	24	1.10	0.026	960
282321	bottle with thiosulfate	<b>RADIATION</b>	1,000	20	1.37	0.033	800
282323	bottle with thiosulfate	<b>RADIATION</b>	500	111	6.15	0.096	2,220
282323.BU	bottle with thiosulfate, individually wrapped	<b>RADIATION</b>	500	111	6,15	0,096	2.220 <b>NEW</b>
282324	bottle with thiosulfate	<b>RADIATION</b>	1.000	74	5,63	0,110	1.184
282324.BU	bottle with thiosulfate, individually wrapped	<b>RADIATION</b>	1.000	74	5,63	0,110	1.184 <b>NEW</b>
282330	bottle without thiosulfate	<b>RADIATION</b>	500	24	1.10	0.026	960
282331	bottle without thiosulfate	<b>RADIATION</b>	1,000	20	1.37	0.033	800
282333	bottle without thiosulfate	<b>RADIATION</b>	500	111	6.10	0.096	2,220
282334	bottle without thiosulfate	<b>RADIATION</b>	1,000	74	5.57	0.110	1,184

We can supply any other concentration according to each country's standards.

In 250 ml or 125 ml bottles if requested.

Optionally presented in individual bags if requested.



Please ask for customized labels



### Sodium thiosulfate sterile bags Whirl-Pak

Specially designed for sampling chlorinated water: waste water, surface and irrigation water supplies, recreational waters, potable water.

Contains 3 tablets of 10 mg sodium thiosulfate.

As an added feature, these bags have a convenient. Write-on strip and markings for 100 ml and 300 ml measurements.

These markings help the technician to collect the correct amount of water as required by the testing procedure.

The write-on strip will accept virtually any writing instrument and minimizes ink smearing on the surface.

code	capacity ml	dimensions cm	case quantity	case weight	case volume
292604	for 300	11.5 x 23	200 x 5	3.6	0.024



### Long-handled dippers

Polypropylene cup and polyethylene handle.

For convenient sampling from tanks, vats, streams, ponds, lakes... These dippers are light, easy to use and portable. The polypropylene cups have threaded fittings that screw onto the handle.

Two pouring spouts on the 500 ml dipper make it useful for left or right handed people to pour from either side.

The end of the handle has a hook for hanging. **Autoclavable** container (up to 121°C).

code	description	quantity	weight	volume
19575	91 cm handle, 500 ml container	1	0.30	0.001
19576	183 cm handle, 500 ml container	1	0.55	0.002
19577	container 500 ml (fits either handle)	1	0.30	0.005

Please ask for other lengths



### Water control: absence/presence of Coliforms (E. Coli)

125 ml bottle, made of PET, with white ribbed tamper evident cap made of PP. It contains dehydrated culture medium in order to detect the presence of coliforms in human consumption, industrial or leisure water (pools,...). Sterile by radiation.

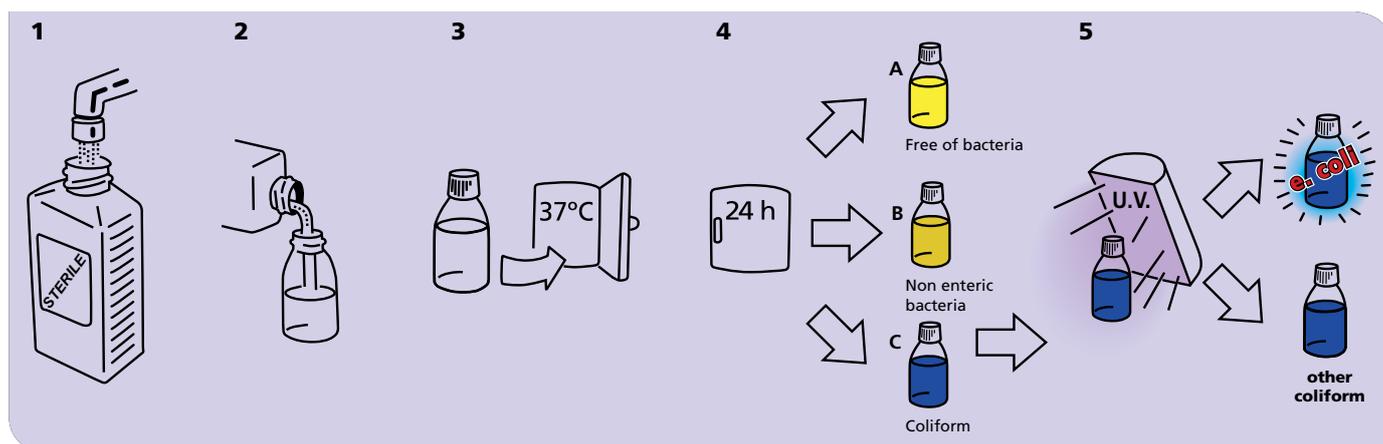
It allows the water testing directly on a bottle.

The culture medium is based on chromogenic substrates, which make possible the coliform reading; and complemented with fluorogenic substrates, which presumptively identify the presence of E. Coli.

Process:

1. A sample of water shall be taken in a sterile bottle, without additives, or with a neutralising (like thiosulfate) in case of chlorinated water.
  2. A part of the sample (100 ml) is to the bottle containing the dehydrated culture medium and then shake gently until dissolved.
  3. Incubate for 24 hours at 37°C.
  4. After incubation, the colour will reveal the results:
    - A Yellow: the sample is negative for non enteric bacteria, total coliforms and E. Coli.
    - B Muddy yellow: the sample is positive for enteric bacteria (not coliforms).
    - C Turquoise blue: the presence of total coliforms is confirmed.
  5. To discard escherichia place the sample under a UV light in a dark environment; if the sample gets fluorescent it contains E.coli; if there is not fluorescence, then it is another coliform, not E. coli.
- Every case includes two boxes with ten bottles each.

code	description	case quantity	case weight	case volume
282300	absence/presence kit	2 x 10	0.72	0.012









### Screw thread microtubes

Made of **autoclavable** polypropylene, they can be used at extreme temperatures from  $-190^{\circ}\text{C}$  to  $+121^{\circ}\text{C}$ . Two versions available: in transparent polypropylene, or opaque brown (designed to be used with light sensitive samples).

**Certified RNase, DNase and Pyrogen free.** Tubes and caps can be centrifuged at **17,000 g**. Caps are supplied separately, see below. Dimensions: 11 x 44 mm.

mod.	code	volume ml	skirt	case quantity	case weight	case volume
<b>Transparent polypropylene</b>						
1	<b>409110.1</b>	0.5	yes	1,000	1.34	0.009
2	<b>409110.2</b>	1.5	yes	1,000	1.34	0.009
3	<b>409110.3</b>	1.5	no	1,000	1.34	0.009
4	<b>409110.4</b>	2.0	yes	1,000	1.34	0.009
<b>Brown polypropylene</b>						
5	<b>409113.1</b>	0.5	yes	1,000	1.34	0.009
6	<b>409113.2</b>	1.5	yes	1,000	1.34	0.009
7	<b>409113.3</b>	1.5	no	1,000	1.34	0.009
8	<b>409113.4</b>	2	yes	1,000	1.34	0.009

### Caps for the above tubes

Made of polypropylene.

Natural or opaque brown colour (codes **409007.M** and **409008.M**), recommended for brown microtubes.

Caps are available either with an attachment loop or without loop. Both models have a sealing O-ring (red) of silicone to ensure a positive leakproof seal.

For sample identification, colour coding inserts can be placed upon caps (made of polypropylene).

Cap dimensions: 13 x 8 mm.

mod.	code	description	case quantity	case weight	case volume
1	<b>409007.N</b>	cap with loop	1,000	0.40	0.003
2	<b>409008.N</b>	cap without loop	1,000	0.40	0.003
3	<b>409007.M</b>	brown cap with loop	1,000	0.40	0.003
4	<b>409008.M</b>	brown cap without loop	1,000	0.40	0.003
5	<b>409111A</b>	blue insert	500	0.58	0.003
6	<b>409111AM</b>	yellow insert	500	0.58	0.003
7	<b>409111B</b>	white insert	500	0.58	0.003
8	<b>409111R</b>	red insert	500	0.58	0.003



### Internal or external thread cryovials

Manufactured in **autoclavable** polypropylene, suitable for its freezing up to  $-196^{\circ}\text{C}$  (liquid nitrogen but in gas phase).

Different versions available:

- Sterile **DNase, RNase and pyrogen free**. With printed graduation and writing area. Available with internal or external thread.
- Nos stérile, external thread. With or without printed graduation. Cap is supplied separately, so different cap colours can be used.



Find more information  
in Chapter 10.  
Sample Storage  
and Cryogenics.



## Screw thread microtubes

Made of transparent polypropylene.

Suitable for use in liquid nitrogen, **autoclave** and for boiling applications, and can be used at temperatures down to  $-190\text{ }^{\circ}\text{C}$ .

**Certified RNase, DNase and Pyrogen free.**

Products ideal for long term sample storage.

Withstand centrifugation at **20,000 g**.

The codes **409111/4**, **409111/5** and **409111/6**, with external moulded slots for better handling with gloves.

Dimensions: 10.3 x 44.5 mm (except code **409111/2**: 10.3 x 43.6 mm)

mod.	code	description	graduation	case quantity	case weight	case volume
1	<b>409111/4</b>	0.5 ml skirted	✗	500	0.70	0.002
2	<b>409111/2</b>	1.5 ml	✓	500	0.60	0.002
3	<b>409111/5</b>	1.5 ml skirted	✗	500	0.60	0.002 <i>New</i>
4	<b>409111/3</b>	2.0 ml	✓	500	0.60	0.002
5	<b>409111/6</b>	2.0 ml skirted	✗	500	0.60	0.002
6	<b>409111/7</b>	2.0 ml skirted	✓	500	0.60	0.002 <i>New</i>

## Caps for the above tubes with o-ring

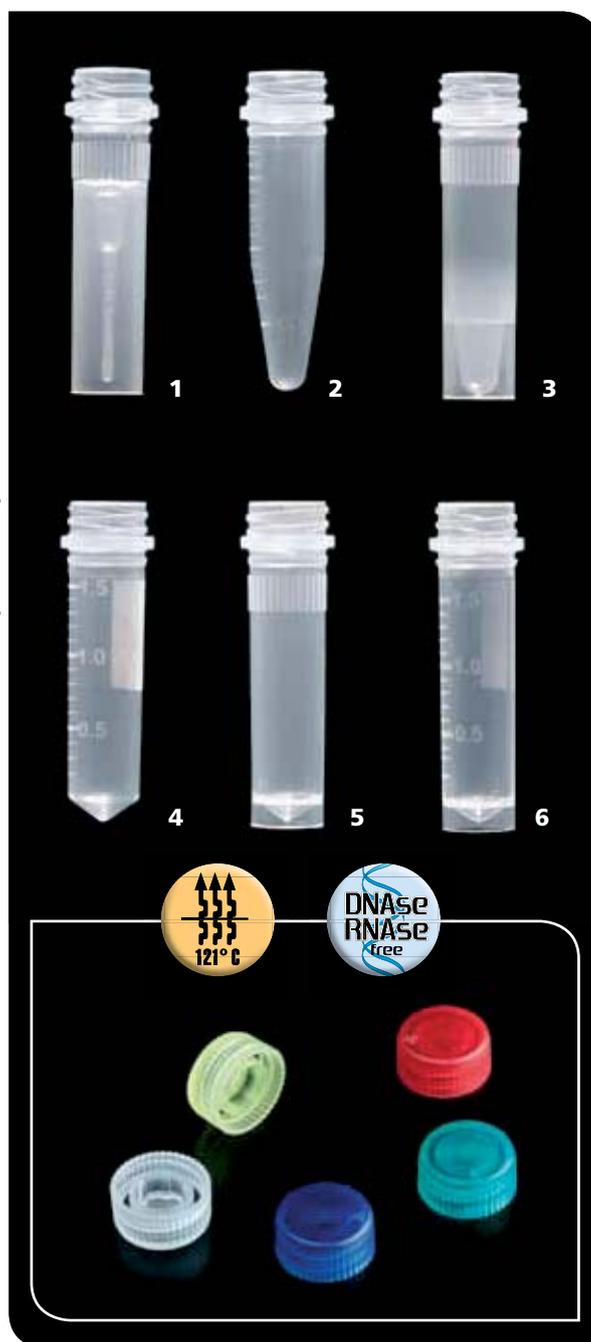
Made of polypropylene of medical degree.

Feature an internal O-ring to ensure leakproof seal.

Dimensions 13.0 x 6.0 mm.

**Certified RNase, DNase and Pyrogen free.**

code	colour	case quantity	case weight	case volume
<b>409112/0</b>	natural	500	0.024	0.0001
<b>409112/1</b>	blue	500	0.024	0.0001
<b>409112/2</b>	green	500	0.024	0.0001
<b>409112/4</b>	red	500	0.024	0.0001
<b>409112/6</b>	yellow	500	0.024	0.0001



## Screw cap microtubes, with cap. Sterile

Tubes and caps in medical grade, transparent polypropylene.

The cap embodies a non-reactive ethylene-propylene joint.

Suitable for **autoclave**, **liquid nitrogen (gaz)** and **boiling processes**.

Perfect for long term storage.

Withstand temperatures from  $-190\text{ }^{\circ}\text{C}$ .

Centrifugation Resistance: **20,000 g**.

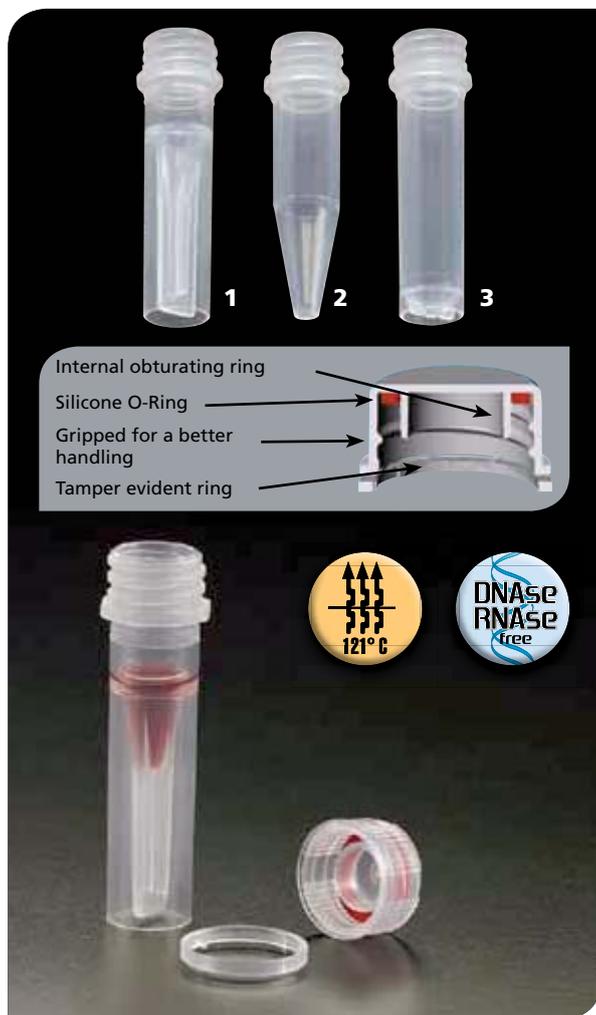
**DNase, RNase, DNA, PCR inhibitors and Pyrogen free.**

Graduated models feature a frosted area for writing.

The non-graduated model incorporates an external grip for an easy handling. Microtubes are supplied capped, in bags of 50 units.

code	description	graduation	case quantity	case weight	case volume
<b>409115/4</b>	0.5 ml skirted	<b>STERILE</b> ✗	50 x 50	5.89	0.029
<b>409115/2</b>	1.5 ml non skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029
<b>409115/6</b>	2 ml skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029
<b>409115/3</b>	2 ml non skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029





Screw cap until locking ring clicks over serrated tube neck. Contents are now protected until cap is removed and tamper-evident ring is detached.

### Self standing, screw thread tamper evident microtubes

Microtubes and caps are made of autoclavable ultra clear polypropylene. Ribbed cap with internal silicone O-ring for a positive **leakproof seal**. Super fast ¼ turn thread design.

**Tamper evident seal** which notices if microtube has been opened. **Rnase, Dnase and Pyrogen free.**

They can be used at extreme temperatures from  $-196^{\circ}$  to  $+121^{\circ}\text{C}$ .

Resistance to centrifugation: **17,000 g**.

Microtube dimensions: 11 x 44 mm.

Cap dimensions (with tamper-evident ring): 15 x 9 mm.

Used on:

- Test of fertility and DNA testing
- Packaging of diagnostic kits and reagents
- Crime Laboratories

mod.	code	volume ml	case quantity	case weight	case volume
1	<b>409110.1T</b>	0.5	1,000	2.06	0.013
2	<b>409110.2T</b>	1.5	1,000	2.06	0.013
3	<b>409110.4T</b>	2	1,000	2.06	0.013

See our wide range of microcentrifuge tubes on Chapter 7. Tubes and Microtubes



### 0.2 ml Real Time PCR tubes

Tubes made of polypropylene, featuring attached hinged caps. Flat caps are easily pierceable and offer optical quality, thus allowing their application in **Real Time PCR**.

Available in strips of 8 tubes (see code **4095.1NP** in the following page).

Certified **RNAse, DNase and PCR inhibitors free**.

code	description	case quantity	case weight	case volume
<b>4094.5N</b>	PCR 0.2 ml QPCR tube	1,000	0.25	0.003



### 0.2 ml PCR tubes

Tubes made of polypropylene, featuring attached hinged caps. **Caps are flat and easily pierceable.**

See strips of these tubes on the following page (codes **4094.3N** and **4094.4N**).

Certified **RNAse, DNase and PCR inhibitors free**.

code	colour	case quantity	case weight	case volume
<b>4094.1N</b>	natural	1,000	0.18	0.002
<b>4094.1R</b>	red	1,000	0.18	0.002
<b>4094.1V</b>	green	1,000	0.18	0.002
<b>4094.1AM</b>	yellow	1,000	0.18	0.002
<b>4094.1A</b>	blue	1,000	0.18	0.002

See minimum order and delivery time for other colors.



### 0.2 ml PCR tubes

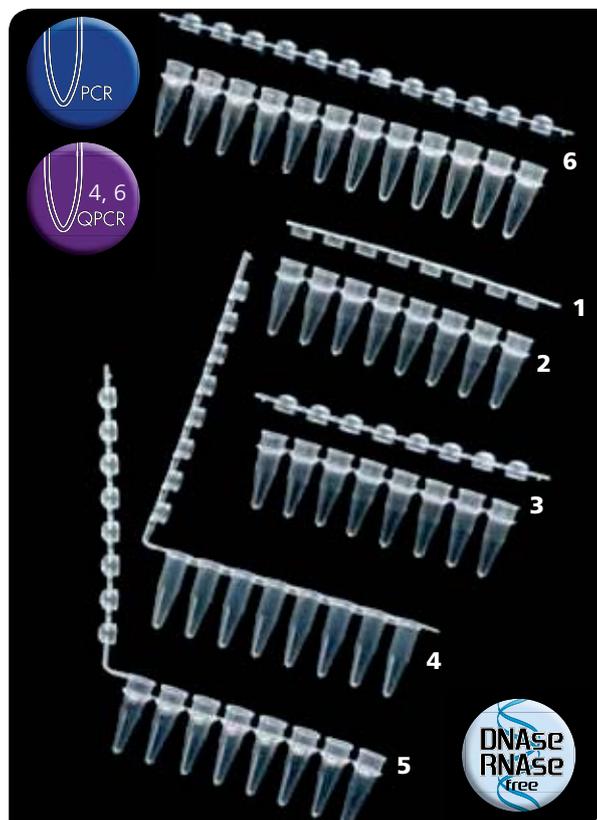
Made of polypropylene.

Tubes with attached domed cap.

Certified **RNAse, DNase and PCR inhibitors free**.

code	description	colour	case quantity	case weight	case volume
<b>4095.9N</b>	individual tube with cap	natural	1,000	0.18	0.002





### 0.2 ml PCR tubes in strips

Made of natural colour polypropylene.

**Certified RNase, DNase and pyrogen free.**

Different models available:

- Strip of 8 or 12 tubes with its corresponding strip of 8 or 12 domed caps.
- Strip of 8 tubes with its attached hinged strip of domed caps.
- Strip of 8 tubes with its attached hinged strip of flat caps, suitable for **Real Time PCR**.
- Strip of 8 tubes.
- Strip of 8 flat caps, suitable for **Real Time PCR**.

Cap and tube strips allow easy handling and inventory of tubes and caps. Cap strips prevent cross-contamination from tube to tube.

	code	description	case quantity	case weight	case volume	
	1	4095.7N	strip of 8 flat caps	125 strips	0.09	0.0007
	2	4095.6N	8 tube strip	125 strips	0.32	0.0026
	3	4095.2N	8 tube strip + 8 domed cap strip	125 strips	0.29	0.0035
New	4	4095.1NP	8 tube strip attached to 8 flat cap strips	125 strips	0.25	0.0027
	5	4095.1N	8 tube strip attached to 8 domed cap strips	125 strips	0.26	0.0027
	6	4095.4N	12 tube strip attached to 12 domed cap strips	80 strips	0.20	0.0035

Ask for another colours.



### 0.2 ml PCR tubes in strips

Tubes made of polypropylene, featuring attached hinged caps. Suitable for **Real Time PCR**.

See individual tubes on page 51 (4094.1N). Caps are flat and easily pierceable.

**Certified RNase, DNase and Pyrogen free.**

In bags of 10 strips.

Available in standard height (code 4094.3N) and low profile (code 4094.4N) that minimizes the effects of condensation and it allows working with small samples even less than 20 µl.

	code	description	case quantity	case weight	case volume
	4094.3N	strip of 8 tubes and 8 attached caps	120 strips	2.72	0.036
	4094.4N	strip of 8 tubes and 8 attached caps <b>low profile</b>	120 strips	2.20	0.028



### 0.2 ml PCR tubes in strips

Made of **autoclavable** polypropylene.

**Certified RNase, DNase and pyrogen free.**

The strip includes 8 integral 0.2 tubes with ultra thin sidewalls and bottoms with individually attached caps.

Available with either **flat (needle pierceable) or dome-topped individually attached hinged caps**.

Every cap embodies a shield in order to prevent contamination when being opened.

While easily opened and closed with one hand, their positive sealing will fully protect the contents from evaporation during the whole thermal cycle. These strips can be cut to any length while each tube has its own attached cap.

	code	cap	colour	case quantity	case weight	case volume	
	1	4096.2N	flat cap	natural	125 strips	0,40	0,055
	2	4096.3N	domed cap	natural	125 strips	0,40	0,055

## Real Time PCR

**Polimerase Chain Reaction is one of the most common techniques in every lab where Molecular Biology is being used.** Its applications comprise **Diagnostics, Genetic and Prenatal testing, Tissue Typing, Forensics, Pharmacological evaluation**, among others.

One of the **most useful PCR techniques** is the **Real Time PCR**, also known as **Quantitative PCR (QPCR)**. Its main **advantage in front of standard PCR is that it saves time as the quantification is being held during DNA amplification**. While standard PCR needs a quantifying process after DNA amplification, **QPCR gives results in real time**.

PCR standard consumables are mainly made of transparent polypropylene. After some years of experience, laboratory technicians have found that **crossalking among transparent wells may affect the real time quantification**. **Opaque white wells and tubes** have proved to avoid this well-to-well crossalking, thus **ensuring an exact and reliable quantification**.

The following pages include the newest innovations in this brand new area; like **bi-mould technologies**, which allow the manufacture of an opaque tube attached to an optically clear cap.

White well technology is available in both strips of tubes or also 96 well plates.

### 0.2 ml, Real Time PCR tubes in strips

Tubes made of polypropylene.

Strip of 8 tubes, each one featuring an attached flat cap.

Strips are manufactured by biomaterial molding, so the tubes are made of opaque white PP, while caps are compounded of transparent, optically clear PP.

Opaque white tubes perform the highest performance in Real Time PCR, as they avoid crossalking between wells.

Specially conceived for **Real Time PCR**. Caps are easily pierceable.

**Certified RNase, DNase and PCR inhibitors free.**

In bags of 10 strips.

code	description	case quantity	case weight	case volume
<b>4094.5BP</b>	strip of 8 white 0.2 ml QPCR tubes and 8 attached caps	120	0.26	0.004



### 0.2 ml, Real Time PCR tubes in strips

Tubes made of polypropylene.

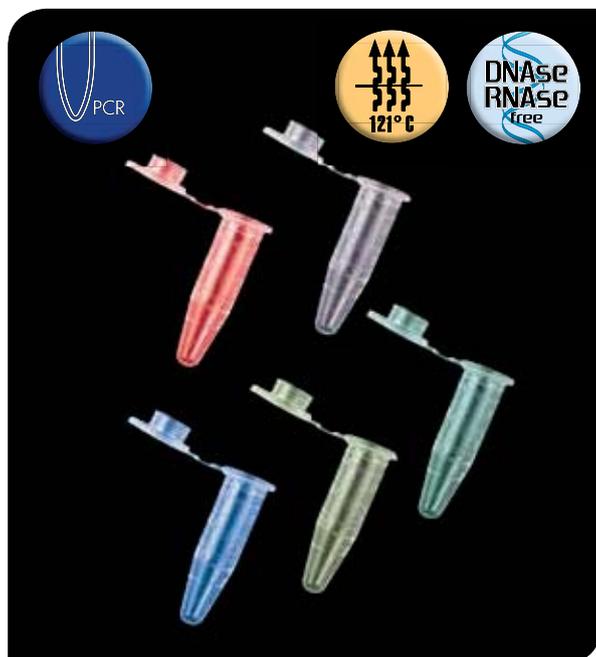
Strip of 8 tubes, featuring an attached strip of 8 flat caps. Strips are manufactured by biomaterial molding, so the tubes are made of opaque white PP, while caps are compounded of transparent, optically clear PP. Opaque white tubes perform the highest performance in Real Time PCR, as they avoid crossalking between wells. Specially conceived for **Real Time PCR**.

Caps are easily pierceable.

**Certified RNase, DNase and Pyrogen free.**

code	description	case quantity	case weight	case volume
<b>4095.1BP</b>	strip of 8 white 0.2 ml QPCR tubes and 8 caps	125	0.23	0.002





### Graduated 0.5 ml PCR tubes

Made of **autoclavable** polypropylene.

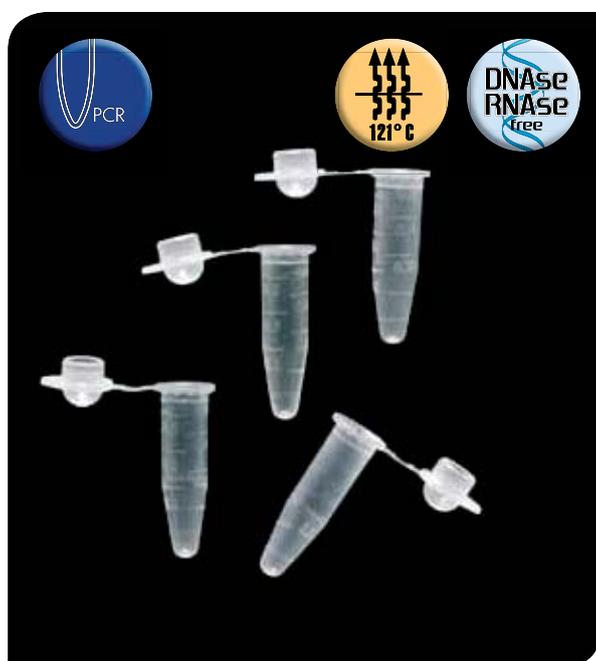
**Certified RNase, DNase and pyrogen free.**

Attached hinged caps are flat and easily pierceable.

Tubes are easily opened and closed with one hand.

Tubes have moulded-in graduations in 0.1 ml increments from 0.1 up to 0.6 ml, and a frosted panel on their side for writing or labelling.

code	colour	case quantity	case weight	case volume
4094.2N	natural	1,000	0.30	0.002
4094.2R	red	1,000	0.30	0.002
4094.2V	green	1,000	0.30	0.002
4094.2AM	yellow	1,000	0.30	0.002
4094.2A	blue	1,000	0.30	0.002



### Graduated 0.5 ml PCR tubes

Same features as the above tubes, but with a domed cap.

code	colour	case quantity	case weight	case volume
4095.5N	natural	1,000	0.38	0.004



### 384 wells plate skirted

Made of transparent polypropylene. 384 wells plate.

Each well has a capacity of 50 µl.

A low rim around the top of each well helps to prevent accidental cross-contamination

All wells are thin walled for an excellent thermal transfer.

Orientation cut is at position A 24 (upper right).

A black printed alphanumeric grid helps sample identification.

**RNase, DNase, DNA and PCR inhibitors free.**

Suitable for PCR and **real time PCR (QPCR).**

Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900384	384 PCR well plate	10 x 10	3.20	0.026

Minimum order quantity: 10

PCR Plates – COMPATIBILITY CHART		900111 and 900111B	900110 unskirted	900122 semi skirt	900112 semi-skirt	900113B semi skirt	900123 skirted	900384 skirted	900098 unskirted	900095 white, skirted 900093 black, skirted
<b>Well Shape</b>										
<b>Standard well.</b> (Overall height approx. 21mm, max. capacity approx. 350 µl)		●		●					●	
<b>Low profile well.</b> (Overall height approx. 16mm, max. capacity approx. 200 µl)			●		●	●	●	50 µl		●
<b>Manufacturer</b>	<b>Model</b>									
<b>Apollo Brand</b>										
	ATC401	●							●	●
<b>Applied Biosystems</b>										
Thermal Cyclers	2700	●		●				●	●	
	9600	●		●					●	
	9700	●		●				●	●	
	9800 "Fast"				●					
	Veriti 0.1 ml				●					
	Veriti 384							●		
<b>"Real Time" Cyclers</b>										
	5700	●		●						
	PRISM 7000	●		●					●	
	7300	●							●	
	7500	●							●	
	7500 "Fast"				●					
	7700	●		●					●	
	Step One plus				●					
Sequencers	PRISM 310	●		●						
	PRISM 3100	●		●						
	3130 (XL)	●		●						
	3700	●		●				●		
	PRISM 3730 (XL)	●		●						
<b>Amersham</b>										
Sequencers	MegaBace 500						●			●
	MegaBace 1000						●			
	MegaBace 4000							●		
<b>Beckman</b>										
Sequencers	CEQ	●								
<b>Biometra</b>										
Thermal Cyclers	Uno	●	●	●			●		●	●
	Uno II	●	●	●				●	●	
	T1 Thermal Cycler	●	●	●			●	●	●	●
	Tgradient	●	●	●			●		●	●
	Trobot	●	●	●			●	●	●	●
<b>Bio-Rad/MJ Research</b>										
Thermal Cyclers	Gene Cycler	●								
	PTC-100	●	●	●			●	●	●	●
	PTC-200	●	●	●			●	●	●	●
	PTC-220/221	●	●				●		●	●
	PTC-225 Tetrad	●	●	●			●	●	●	●
	Dyad/Dyad Disciple	●	●	●			●	●		
	iCycler	●		●			●		●	
	MyCycler	●		●					●	
	Mini Gradient	●	●							
	Personal	●		●						
	DNA Engine family	●	●	●			●	●		
	C1000/S1000	●	●	●			●	●	●	●
<b>"Real Time" Cyclers</b>										
	Opticon/Opticon2	●	●				●			
	Chromo-4		●				●			●
	iCycler	●		●			●	●		
	MyiQ	●		●			●			
	iQ5	●		●			●			
	CFX96						●			
	CFX384							●		
Sequencers	BaseStation						●			●

## PCR Plates – COMPATIBILITY CHART

Well Shape		900111 and 900111B	900110 unskirted	900122 semi skirt	900112 semi-skirt	900113B semi skirt	900123 skirted	900384 skirted	9000098 unskirted	900095 white, skirted 900093 black, skirted
<b>Standard well.</b> (Overall height approx. 21mm, max. capacity approx. 350 µl)		●		●					●	
<b>Low profile well.</b> (Overall height approx. 16mm, max. capacity approx. 200 µl)			●		●	●	●	50 µl		●
Manufacturer	Model									
<b>Corbett Research</b> (Qiagen)	PalmCycler 96		●	●			●		●	●
	PalmCycler 384							●		
<b>Eppendorf</b>	Mastercycler	●	●	●			●			
	Mastercycler Gradient	●							●	●
	Mastercycler ep	●	●	●			●			
	Mastercycler M384							●		
<b>"Real time" Thermal Cyclers</b>	Mastercycler ep Realplex			●			●		●	●
<b>Ericom</b>	Power Block I	●	●							
	Deltacycler I	●	●	●					●	
	Deltacycler II	●	●						●	
	Single Block	●	●	●					●	
	Twin Block	●	●	●					●	
<b>Esco</b>	Swift	●		●				●		
<b>Flexi</b>	Gene	●		●			●	●		
	Genius	●		●			●			
<b>G-Storm</b>	GS1	●	●	●						
	GS4	●	●	●						
	GSX	●	●	●						
	GSXs	●	●	●						
<b>MWG</b>	Primus 96	●	●	●			●		●	●
	Primus 384							●		
	TheQ Lifecycler	●	●				●		●	●
<b>Stratagene</b>	Robocycler 96	●		●					●	●
	Gradient Cyclor	●		●			●		●	●
	Robocycler Gradient	●	●	●			●			
<b>"Real Time" Cyclers</b>	Mx4000 and Mx3000	●	●						●	
	Mx3005P™	●		●			●		●	
<b>TaKaRa</b>	TP240						●			
	TP3000	●	●	●			●		●	●
<b>Techne</b>	Touchgene	●	●	●					●	●
	Cyclogene	●	●	●					●	●
	Genius	●	●	●					●	●
	Genius Quad	●	●	●					●	●
	Genius (TC412)	●	●	●			●		●	●
	Flexigene	●	●	●			●	●	●	●
	Touchgene X	●	●	●			●	●		
	Touchgene Gradient ITC512)	●	●	●			●	●	●	●
<b>"Real Time" Cyclers</b>	Quantica		●				●			●
<b>Thermo Hybaid</b>	PCR Sprint	●	●	●			●			
	MBS Satellite System	●	●	●			●	●	●	●
	Px2 and PxE	●	●	●			●	●	●	●
	PCR Express and Omni-E	●	●	●			●	●	●	●
	Touchdown	●	●	●			●	●	●	●
	Omnigene	●	●	●			●	●	●	●
<b>Transgenomic</b>										
Sequencers	WAVE System						●			●
<b>Roche</b>										
<b>"Real Time" Cyclers</b>	LightCycler 480					●				

### 96-well flexible PCR plate

Made of **autoclavable** polypropylene.

It is suitable for both real time and standard PCR thermocyclers.

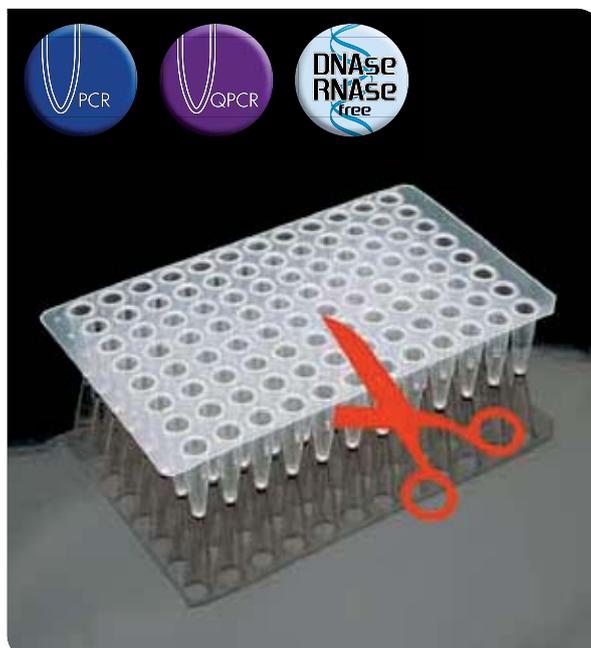
This 96-well PCR plate is thin-walled for rapid thermal transfer. Flexible, the plate could be easily cut into sections of 24, 32 or 48 tubes.

An alphanumeric grid helps sample identification, and to facilitate orientation, the bottom right corner of the plate is cut away. Dimensions: 120 x 73 x 20 mm.

**Certified RNase and DNase free.**

Dimensions according to the **SBS** standard

code	colour	case quantity	case weight	case volume
900098	natural	10	0.17	0.002



### 96-well low profile skirted PCR plate

Made of polypropylene. Each "low profile" well has a capacity of 200  $\mu$ l. A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.

All wells are thin walled for an excellent thermal transfer.

This plate has a skirt approximately 15 mm high that can be filled using automatic fluid handling systems or standard multichannel pipettors.

A black printed alphanumeric grid helps sample identification.

Orientation cut is at position A 12 (upper right).

**RNase, DNase, DNA and PCR inhibitors free.**

Suitable for PCR and real time **PCR (QPCR)**.

Dimensions according to the **SBS** standard.

code	colour	case quantity	case weight	case volume
900123	natural	10 x 10	3.18	0.030



### Opaque skirted 96 well PCR plate

Made of **autoclavable** polypropylene.

Alphanumeric identification.

The skirt around the plate provides a labelling area.

Conical-bottomed wells.

The plate can be handled by robotic equipment and is ideal with automated pipetting systems.

To facilitate orientation, the bottom right corner of the plate is cut away.

Well dimensions: 5.5 mm. Well depth: 14 mm.

Code **900093**: Black plate for fluorescent PCR.

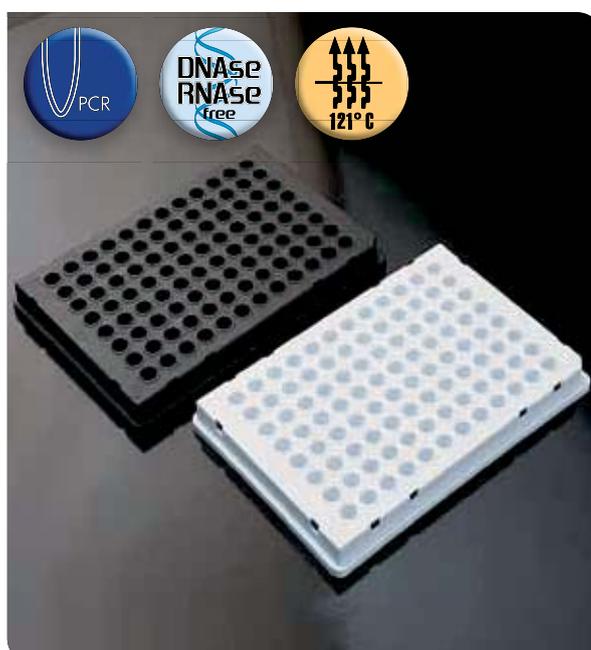
Code **900095**: White plate for luminescence (optical absorption) PCR.

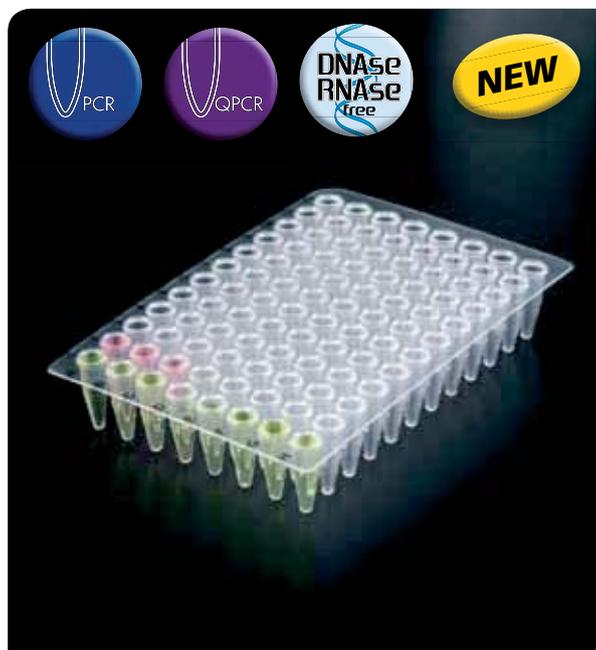
Dimensions: 126 x 84 x 15 mm.

**Certified RNase and DNase free.**

code	description	case quantity	case weight	case volume
900093	96 well black plate	5 x 10	1.20	0.008
900095	96 well white plate	5 x 10	1.20	0.008

Minimum order quantity: 10.





### 96 well standard plate

Made of transparent polypropylene.

96 wells standard plate with a capacity of 350  $\mu$ l each well.

A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.

All wells are thin walled for an excellent thermal transfer.

Its flexible design allows the plate to be easily cut into sections of 24, 32 or 48 tubes.

A black printed alphanumeric grid helps sample identification.

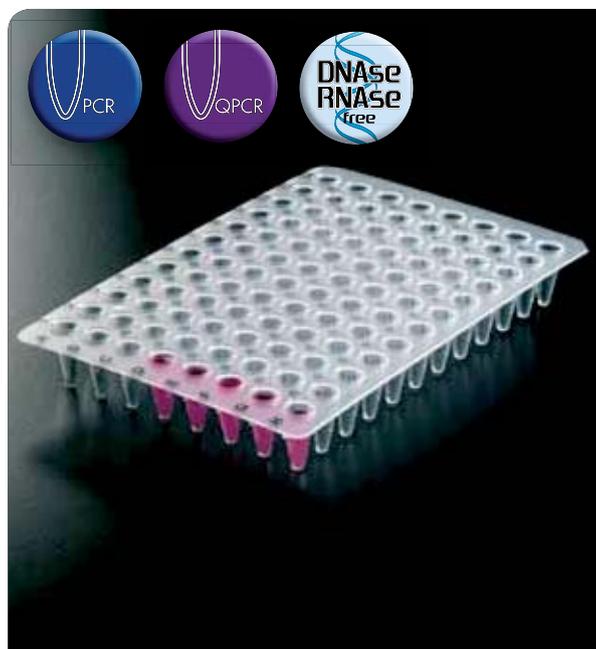
Orientation cut is at position A 12 (upper right).

**RNAse, DNase, DNA and PCR inhibitors free.**

Suitable for PCR and real time **PCR (QPCR)**.

Dimensions according to the **SBS** standard.

code	colour	case quantity	case weight	case volume
900111	natural	10 x 10	3.18	0.030



### 96-well low profile PCR plate

Made of transparent polypropylene.

Low profile well (15 mm high).

Perfect to work with samples of 100  $\mu$ l or even less.

A low rim around the top of each well helps to prevent accidental cross-contamination.

The orientation cut is at position H 12 (lower right).

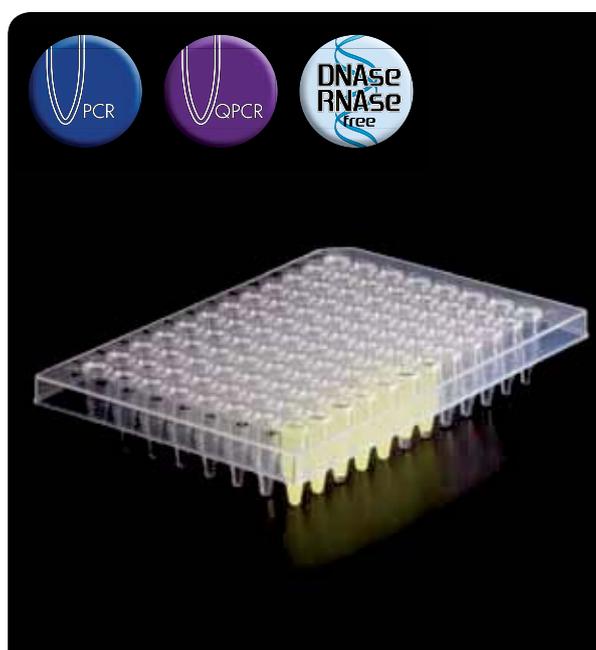
A printed alphanumeric grid helps sample identification.

**DNase, RNAse, DNA and PCR inhibitors free.**

It is suitable for both standard or **Real Time PCR**.

Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900110	low profile PCR plate	5 x 20	1.9	0.016



### 96 well semi-skirt plate

Made of transparent polypropylene.

This plate has a semi skirt  $\pm$ 7.5 mm high.

Each well has a capacity of 200  $\mu$ l and embodies a low rim around its top which prevents accidental cross-contamination and it makes easy the sealing with foils.

Orientation cut is at position A 12 (upper right).

Alphanumeric identification printed in black.

**DNase, RNAse, DNA and PCR inhibitors free.**

Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900122	semi-skirt PCR plate	10	0,32	0,001

### 96 wells white standard plate

Made of white polypropylene. 96 wells standard plate.

Each well has a capacity of 350  $\mu$ l.

A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.

All wells are thin walled for an excellent thermal transfer.

Its flexible design allows the plate to be easily cut into sections of 24, 32 or 48 tubes.

Orientation cut is at position A 12 (upper right).

A black printed alphanumeric grid helps sample identification.

**RNAse, DNase, DNA and PCR inhibitors free.**

Suitable for PCR and **real time PCR (QPCR)**.

Dimensions according to the SBS standard.

code	description	case quantity	case weight	case volume
<b>900111B</b>	white PCR plate	10 x10	3.18	0.030

Minimum order quantity: 10.



### 96 wells low profile, semi-skirted white plate

**Specially designed for Roche thermocycler.**

Made of white polypropylene. Semi-skirt "low profile" 96 well.

Each well has a capacity of 200  $\mu$ l.

A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.

Orientation cut is at position H 12 (bottom right).

A black printed alphanumeric grid helps sample identification.

**RNAse, DNase, DNA and PCR inhibitors free.**

Suitable for PCR and **real time PCR**.

Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
<b>900113B</b>	semi-skirt PCR plate	10 x 10	3.18	0.030

Minimum order quantity: 10.



### 96 well, low profile, semi-skirted plate

**Specially designed for ABI "Fast" thermocycler.**

Made of transparent polypropylene.

Semi-skirt "low profile" 96 well.

Each well has a capacity of 200  $\mu$ l.

A low rim around the top of each well helps to prevent accidental cross-contamination.

Orientation cut is at position A 1 (upper left).

A black printed alphanumeric grid helps sample identification.

**RNAse, DNase, DNA and PCR inhibitors free.**

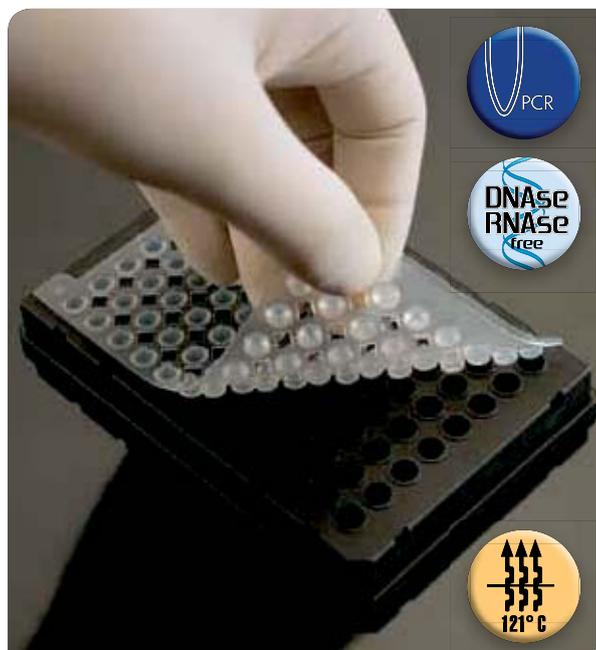
Suitable for PCR and real time **PCR (QPCR)**.

Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
<b>900112</b>	semi-skirt PCR plate	10 x 10	3.18	0.030

Minimum order quantity: 10.





### PCR sealing mat

Manufactured from a non reactive rubber, this PCR sealing mat ensures a secure, leak free seal during the PCR cycling process.

It is designed to seal **96 well PCR plates**, but may also be cut to fit 24/32/48 well plates.

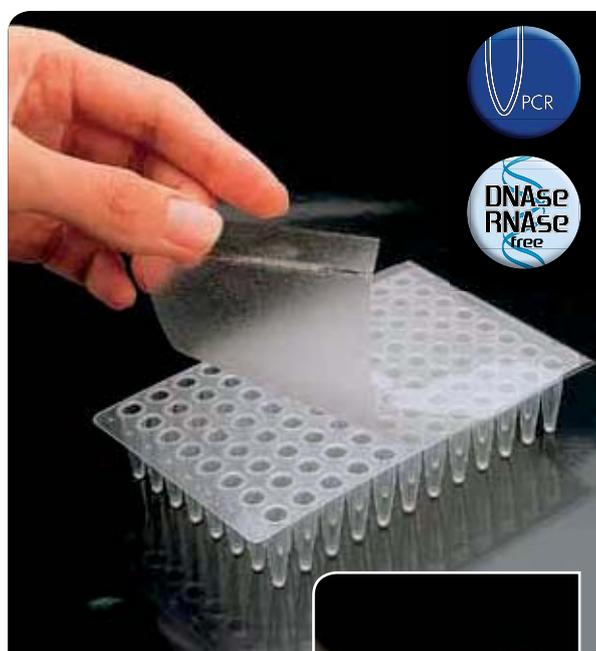
The mat is marked "this side up" for a proper positioning into the plate (sharp cone side up).

This sealing mat may be sterilised in an **autoclave** or cleaned by immersion in a bleach solution.

The PCR sealing mat can be re-used as often as required.

**DNase, RNase, DNA and PCR inhibitors free.**

code	description	case quantity	case weight	case volume
<b>900305</b>	PCR sealing mat	10 x 5	1.20	0.007



### Adhesive sealing film for PCR plates

Sealing film for use with microplates, PCR plates and microtiter plates.

Advantages:

1. Minimises the risk of contamination or reagent spillage during E.L.I.S.A. or PCR processes.
2. Minimises the risk of contamination from tube to tube and from plate to plate.
3. Prevents sample evaporation.

A 5 mm wide strip (opaque white) at the lateral edges of the film helps pull the film from its protective paper and prevents it sticking onto fingers. The film is thermostable and functional from  $-70^{\circ}\text{C}$  to  $+95^{\circ}\text{C}$  at 75% humidity.

**RNase and DNase free. DMSO resistant.**

We recommend to use the "roller" **900330** to ensure a perfect seal.

code	description	case quantity	case weight	case volume
<b>900300</b>	adhesive film	1 x 100	0.23	0.001
<b>900330</b>	sealing roller	1	0.014	0.001



### Aluminium sealing foil

This type of material is ideal for manual sealing during PCR work, microtiter plates or manipulation and file plates.

For high throughput applications from  $-86^{\circ}\text{C}$  to  $+95^{\circ}\text{C}$ .

Adhesive backing.

Pierceable with a pipette tip for easy access to sample.

DMSO resistant.

It is recommended to use the "roller" code **900330** for ensuring a perfect sealing, eliminating the danger of evaporation.

**RNAsa, DNAsa and DNA free.**

code	description	case quantity	case weight	case volume
<b>900320</b>	aluminium foil	1 x 100	0.320	0.001
<b>900330</b>	sealing roller	1	0.014	0.001

### Deep well plate (96 square wells or 12 rectangular channels)

Made of medical grade polypropylene.

A printed alphanumeric grid helps sample identification, and to facilitate orientation the bottom left corner of the plate is cut away. Conical bottom wells.

Widely used for liquid handling and storage, whether with manual pipetting or robotic handling.

Withstand temperatures from -90°C to +121 °C (**Autoclave**).

**Dimensions according to SBS.**

**Certified free from detectable RNase, DNase, DNA and PCR inhibitors.**

Codes **900195** and **900196** are supplied in 2 bags of 5 units each.

Code **900197** proves to be extremely convenient as a reservoir thanks to its 12 high volume channels. Supplied in a bag of five units.

Code **900309** is a sealing mat manufactured from autoclavable silicone. Exclusive use with the square well plates (**900195** and **900196**).

Pierceable so the sample can be aspirated without removing the mat.

Supplied in a bag of five units.

mod.	code	description	case quantity	case weight	case volume
1	<b>900195</b>	96 well plate 2.2 ml	2 x 5	1.27	0.007
2	<b>900196</b>	96 well plate 1.1 ml	2 x 5	0.95	0.007
3	<b>900309</b>	sealing mat for 96 squared wells	5	0.14	0.001
4	<b>900197</b>	12 channel plate 22 ml	5	0.45	0.005



### 96 deep Deep well plate (96 round wells)

Made of medical grade polypropylene, it is comprised of 96 round bottom wells, each one of 1.2 ml capacity. Printed alphanumeric grid helps sample identification, and to facilitate orientation the bottom right corner of the plate is cut away.

Widely used for liquid handling and storage, whether with manual pipetting or robotic handling.

It withstands temperatures from -90°C to +121°C (**autoclave**).

**Dimensions according to SBS.**

**Certified free from detectable RNase, DNase, DNA and PCR inhibitors.**

It can be sealed with the plastic sealing film **900300** or the pierceable aluminum foil **900320**.

code	description	case quantity	case weight	case volume
<b>900155</b>	96 well plate 1.2 ml	10	1.27	0.007



### 96 deep well plate (square well, round bottom)

Made of polypropylene. The 2.1 ml well capacity (2.0 when capped) plate is used mainly for compound storage and enzyme assays. An alphanumeric grid helps sample identification, and to facilitate orientation the bottom right corner of the plate is cut away.

DMSO resistant. Can be centrifuged up to 6000g.

Withstand temperatures up to -150 °C. **Autoclavable**.

Each well measures 8.3 x 8.3 mm.

Plate dimensions: 41.6 mm high x 127.8 mm long x 85.5 mm wide.

We recommend to protect the samples with the sealing mat code **900306** (DMSO resistant).

code	description	case quantity	case weight	case volume
<b>900170</b>	natural	4	0.47	0.002
<b>900306</b>	sealing mat	24	0.15	0.0002





### Sample storage system

96 round bottom tubes, supplied in twelve strips of eight tubes each, held in a rack with lid. Rack, lid, tubes and caps are made of **autoclavable** polypropylene, manufactured with the SBS standard footprint. Compatible with all robotic applications and multichannel pipetting systems. Alphanumeric numbered wells, indelibly printed in black, allowing identification in short light conditions. **DNase, RNase, DNA and PCR inhibitors free.**

Used for serial dilutions, mixing, storage and harvesting of cells, cell growth for cell culture assays and DNA screening, and as an ideal long-term storage system.

Caps are sold separately in strips of eight units; every cap has a tag to make an easy opening and closing.

Tube dimensions (height): 8 x 44 mm

Rack dimensions (with lid): 128 x 86 x 48 mm

code	description	case quantity	case weight	case volume
409009	rack with 96 tubes (8 x 12)	10	1.63	0.0140
409010	tubes of 8 tubes each	125 strips	0.73	0.0073
409011	strips of 8 tubes each	125 strips	0.14	0.0012
409012	loose tubes	1,000	0.73	0.0073



### Sample storage system

Compact sample storing system. It consists on a blue rack with a translucent lid, holding 96 loose round bottom tubes (1,2 ml) arranged in 8 x 12.

**Autoclavable** and stackable, it resists up to  $-100^{\circ}\text{C}$ , and embodies a moulded alphanumeric identification. Rack, lid and tubes made of polypropylene. Caps made of low density polyethylene.

Caps are sold apart in strips of eight units; every cap has a tag to make an easy opening and closing.

Tube dimensions (height, closed): 8,7 x 45 mm.

Rack dimensions (with lid): 118 x 82 x 50 mm.

**DNase, RNase free**

code	description	case quantity	case weight	case volume
409008	rack with 96 tubes (8 x 12)	10	1.24	0.0100
409005	strips of 8 caps each	120 strips	0.01	0.0001
<b>New</b> 409008.1	tubes in bulk	1,000	1.00	0.0500

### Storage rack with 2 ml tubes

Compatible with most robotic Workstation, this polypropylene storage rack can be used with most cell harvesters and leading 8- & 12- channel pipettors.

It contains 96 removable polypropylene square tubes in a 8 x 12 configuration, each having a 2.1 ml capacity (2 ml when capped). Although the tubes are square, the bottom is round to facilitate emptying.

Tubes and rack are **autoclavable** and they are ideal for storage of blood and other biological samples at temperatures from -30°C up to 70°C.

Racks are stackable to save storage space.

According to SBS standard.

code	description	case quantity	case weight	case volume
418003	96 well storage rack with tubes	10	1.81	0.008



### Sample storage system

It consists on a white rack and a transparent lid, with 96 tubes (12 x 8) 1.2 ml (capped, 1.1 ml).

Tubes and rack are manufactured in polypropylene, being autoclavable.

Caps in non **autoclavable** polyethylene.

Caps are acquired apart, in strips on eight units.

It is ideal to work with robots and multichannel pipetting systems, as well as for sample transport, storage, or freezing (it can withstand up to -80 °C).

It stands up the majority of chemical agents.

Both lid and rack embody an alphanumeric identification.

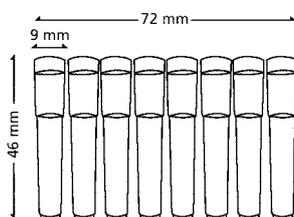
The top left edge of the lid is cut for an exact orientation.

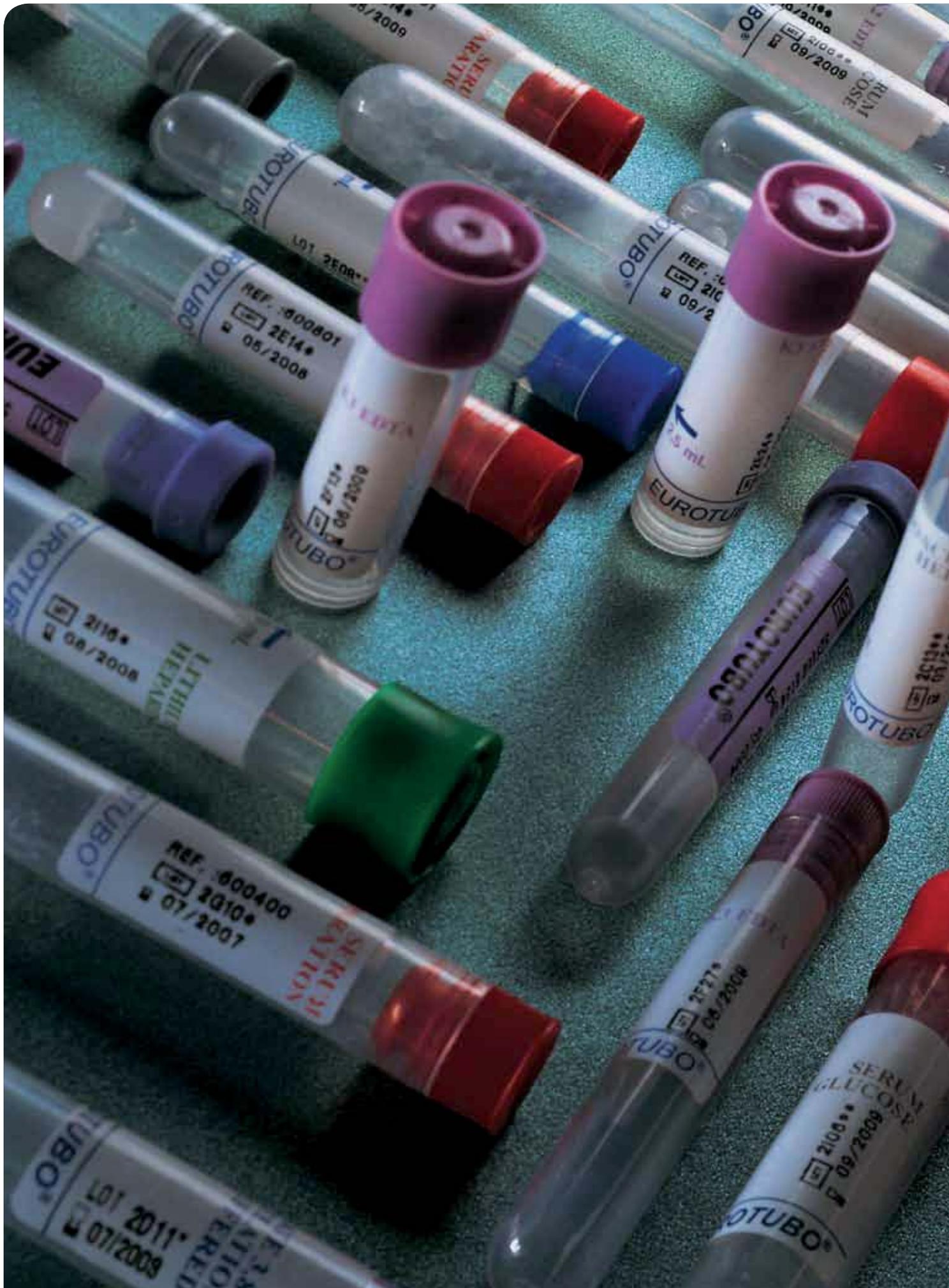
Tube dimensions (capped): 9 x 48 mm.

Rack dimensions (with lid): 126 x 81 x 53 mm.

According to SBS standard.

code	description	case quantity	case weight	case volume
409004	rack with 96 tubes (8 x 12)	10	1.81	0.0080
408002	tubes of 8 caps each	120 strips	0.60	0.0040
408005	strips of 8 caps each	120 strips	0.01	0.0001
408003	loose tubes	5 x 960	0.80	0.0200









### 100% Traceability

Our blood collection tubes are individually identified with its code, LOT number and expiry date, so the traceability from its manufacture to the final consumer is guaranteed.

**Raw materials traceability.**

**Process traceability.**

**Final product traceability.**

We manufacture our blood collection tubes by following:

Guideline **98/79/CE** –Royal decree 1662/2000 referred to the product used to “in vitro” diagnosis.

**ISO 6710** Single use containers for blood collection.

**UNE-EN ISO 14971** for the Risks Management of Sanitary Products.

**UNE-EN 980** for Labeling and Marking.

**UNE-EN ISO 13485**, medical devices - quality management systems.



### Expiry date our tubes, anticoagulants and other

- Serum tubes (granules and gel): ..... 2 years
- Serotub with granules and preservative:..... 1 year
- Lithium heparin:..... 2 years
- Iodoacetate heparin:..... 1 year
- Edta:..... 2 years
- Citrate for coagulation: ..... 15 months
- Anticoagulants in containers:..... 2 years
- Thrombocyte count and osmotic brittleness: ..... 2 years
- Reticulocyte vital staining:..... 2 years

### Procedures and controls

During the manufacturing process a lot of controls and guides are used, insisting on:

- Reproducibility dosing control.
- Quantity and quality dosing control (**flame photometer**).
- Watertightness control (**vacuum, centrifugation and fluorescein method**).

Each case includes a brochure with recommendations of use.

### Serum tubes with clot accelerator and gel serum separator, CE (IVD)

Made of a clear polypropylene, supplied capped and labelled with an inert polyethylene cap.

The tubes are designed and processed to permit a fast serum and blood clot separation.

Each tube contains a special inert additive which accelerates the coagulation, and the result is a **fast clot retraction**.

The coagulation speed is, doubtlessly, much higher than the obtained with the glass tubes or the other existing tubes on the market.

The inert gel is located, after centrifugation, between the clot and the obtained serum and it works as a totally watertight barrier.

The ergonomic features of the cap design results in a very reliable and easy-to-use cap.

**On the label of each tube the lot number, expiry date and volume are printed.**

Supplied in plastic racks.

We strongly recommend its usage for biochemistry, routine tests, special biochemistry, markers, hormones, immunology (tube without anticoagulants).



code	description	case quantity	case weight	case volume	pallet quantity
600801	13 x 75 round for 4 ml	12 x 100	5.80	0.033	48
600800	15 x 100 round for 9 ml	6 x 120	6.00	0.040	36

### Serum tubes with clot accelerator and gel serum separation

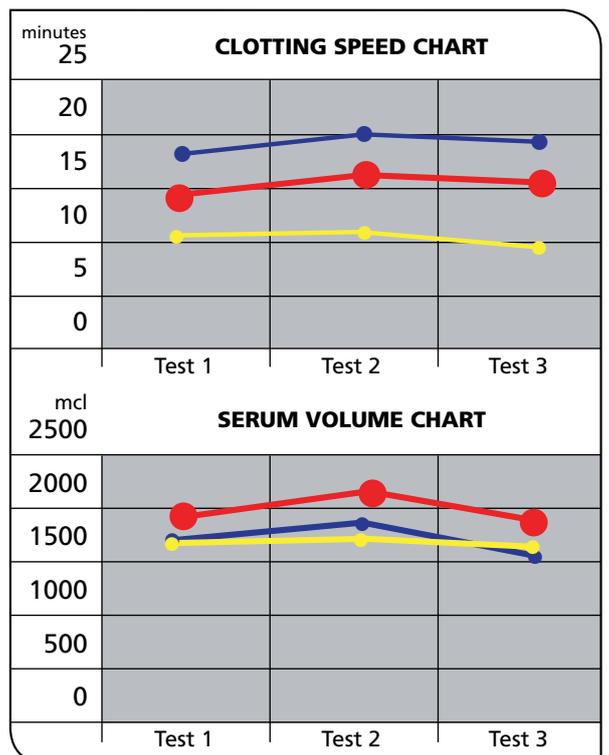
**Clotting speed increased:** with our the tubes processed with gel serum separator and accelerator we improve the clotting speed achieving a 20-25% advantage over glass tubes.

The serum is obtained after 12 minutes, depending on the particular working conditions.

**Serum volume increased:** The volume obtained is higher than the obtained with granules tubes or glass tubes, achieving an advantage around 20%. The gel serum separator tube is the preferred option when analysis requires maximum serum yield from the blood sample.

Recommended in case the objective is to obtain larger serum volume.

**Note:** Before using, the gel serum separator remains at the bottom, even when the tube is bent.



— Glass tube    —●— Gel + accelerator    —●— Granules + Accelerator



### Serum tubes with clot accelerator and granule serum separator

CE (IVD)

Made of a clear polypropylene, supplied capped and labeled with an inert polyethylene cap.

The tubes are designed and processed to permit a **fast serum and blood clot separation**.

Each tube contains a special inert additive which accelerates the coagulation, and the result is a fast clot retraction. The coagulation speed is much higher than the obtained with the glass tubes or the other existing tubes on the market.

The inert **granules are rounded** to avoid cellular lesions during centrifugation and minimize the risk of haemolysis. These granules are located between the clot and the separated serum working as a retaining wall. It assures a comfortable pipette action or serum decanting. (It isn't a watertight barrier).

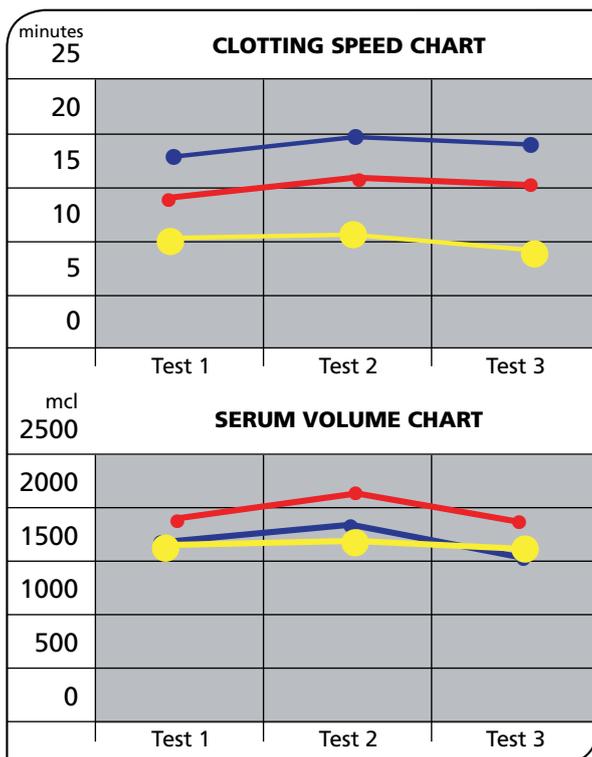
The ergonomic features of the cap design results in a very reliable and easy-to-use cap.

**On the label of each tube the lot number, expiry date and volume are printed.**

Supplied in plastic racks.

code	description	case quantity	case weight	case volume	pallet quantity
600400	13 x 75 round for 4 ml	12 x 100	5.10	0.033	48
600300	16 x 100 round for 9 ml	6 x 120	5.60	0.040	36
707094*	bottle of 750 g with separator granules	20	17.50	0.046	32

\* Not CE Product



### Serum tubes with clot accelerator and granules

**Clotting speed increased:** with our the tubes processed with granules and accelerator we achieve a clotting speed higher than the obtained not only with glass tubes but also with gel tubes. The advantage achieved is around 40-50 % over glass tubes.

Serum can be obtained starting from 12 minutes, depending on working conditions.

**Serum volume increased:** The volume obtained is a little higher than the obtained with glass tubes but fewer than the obtained with gel serum separator tubes.

Due to its effectiveness and low price this product is highly recommendable for all routine serum tests.

— Glass tube — Gel + accelerator — Granules + Accelerator

## Serum glucose serotub

CE (IVD)

Made of a clear polypropylene, supplied capped and labeled with an inert polyethylene cap.

To permit a fast serum separation of the blood clot, the tubes have an inert additive inside which speeds up the coagulation. This accelerator allows a mixture with the blood almost immediate and avoids the unnecessary sample dilution.

**The coagulation speed is much higher than the obtained with the glass tubes or the other existing tubes on the market.**

The inert **granules are rounded** to avoid erythrocytes lesions during centrifugation and minimize the risk of haemolysis. These granules are located between the clot and the separated serum working as a retaining wall. It assures a comfortable pipette action or serum decanting. (It isn't a watertight barrier). Inside the tube there is also a little amount of a glucose preservative, lithium iodoacetat, which maintains the sample stable up to 6 days and allows to make most of the biochemical measurements with an only tube (the exceptions are CPK and Lithium); so it's possible to save one of the two tubes used normally to determine routine tests and glucose respectively.

With the ergonomic features of the cap the design achieves a high reliability without avoiding the main characteristic of the cap: it's very easy to use.

**On the label of each tube the lot number, expiry date and volume are printed.**

Presentation: packed in black bags in order to maintain them out of the light because the iodum is photosensitive.

Keep these tubes at a temperature bellow 35 °C.

Supplied in plastic racks.



code	description	case quantity	case weight	case volume	pallet quantity
600602	13 x 75 for 4 ml blood	12 x 100	5.10	0.033	48

Ask for minimum quantity and delivery time for tube 16 x 100, 10 ml blood.

See the explanations about the standard gel and granules tubes.

## Silicone tourniquet

0.8 thick and 19 mm wide. No toxic.

**Autoclavable.**

code	description	quantity	weight	volume
GS-01	roll of 50 meters	1 x 50	0.85	0.001
GS-02	box with 10 bands 0.5 m long each	1	0.10	0.001





### Lithium heparin tubes

CE (IVD)

Made of a clear polypropylene, supplied capped and labeled, indicating **filling line, lot number, and expiry date**.

The anticoagulant pulverization inside the tube optimizes the mixture and avoids the unnecessary blood dilution.

The anticoagulant mechanism is the inhibition of the thrombin action.

Supplied in plastic racks.

code	type of coagulant	description	case quantity	case weight	case volume
<b>601802</b>	spray	13 x 75 round for 4 ml blood	12 x 100	4.30	0.033
<b>601803</b>	spray	13 x 75 round for 2.5 ml blood	12 x 100	4.30	0.033
<b>601810</b>	spray	16 x 100 round for 10 ml blood	6 x 120	5.50	0.040

Pallet quantity code **601802** and **601803**: 48 cases.

Pallet quantity code **601810**: 36 cases.



### Iodoacetate lithium + heparin lithium tubes

CE (IVD)

Made of a clear polypropylene, supplied capped and labeled. On the label of each tube a fill line indicates the level of blood required, as well is printed the lot number and expiry date.

The anticoagulant and preservative pulverization inside the tube optimizes the mixture and avoids the unnecessary blood dilution.

The blend anticoagulant-glucose preservative is ideal for biochemical tests, so it's possible to determine most of the biochemical parameters with only one tube and preserve the product stable for 6 days. It is recommended to maintain the tubes in a dark and cool place (at room temperature).

The tubes are packed in black bags in order to maintain them out of the light because the iodine is photosensitive.

Supplied in plastic racks.

code	type of coagulant	description	case quantity	case weight	case volume
<b>602002</b>	spray	13 x 75 round for 4 ml blood	12 x 100	4.30	0.033
<b>602003</b>	spray	13 x 75 round for 2.5 ml blood	12 x 100	4.30	0.033

Pallet quantity: 48 cases.

**Edta: tripotassium**

CE (IVD)

Made of clear polypropylene, supplied capped and labeled. Tetracetic acid, a tripotassium salt, works as an anticoagulant thanks to its capacity to fix the blood calcium. Because the anticoagulant is pulverized, it allows a mixture with the blood almost immediate.

The quantity of additive is very small so there are no dilution mistakes. (this may occur in the tubes with big additive liquid solution volumes). There is no risk of anticoagulant loss when uncapping because it is adhered to the tube walls.

The cap shape, both internal and external design, assures a comfortable and reliable capping.

**A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.**

Supplied in plastic racks.

code	type of coagulant	description	case quantity	case weight	case volume
<b>601612</b>	spray	15 x 50 fat for 4 ml blood	10 x 120	4.60	0.033
<b>601613</b>	spray	15 x 50 flat for 2.5 ml blood	10 x 120	4.60	0.033
<b>601603</b>	spray	13 x 75 round for 2.5 ml blood	12 x 100	4.30	0.033
<b>601702</b>	spray	13 x 75 round for 4 ml blood	12 x 100	4.30	0.033

Pallet quantity code **601612** and **601613**: 40 cases.

Pallet quantity code **601603** and **601702**: 48 cases.

**Edta: tripotassium. Rubber cap**

CE (IVD)

Tubes made of clear polypropylene, supplied capped and labeled. Mauve, pierceable (but not pierced) and plugged cap made of thermoplastic rubber.

Suitable for hematological automatic machines.

The label indicates code, volume, lot number and expiry date, assuring total traceability.

Tubes supplied in trays of 100 units.

mod.	code	type of coagulant	description	case quantity	case weight	case volume
1	<b>611603</b>	liquid	13 x 75 for 3 ml blood	10 x 100	5.30	0.034
2	<b>611604</b>	liquid	13 x 80 for 3 ml blood	8 x 100	3.00	0.030

Pallet quantity code **611603**: 48 cases.

Pallet quantity code **611604**: 50 cases.





### Blood-plasma. Edta tubes: dipotassium $\text{C}\epsilon$ (IVD)

Made of clear polypropylene, supplied capped and labelled. Tetraaceticetidiamin acid, a dipotassium salt, works as an anticoagulant thanks to its capacity to fix the blood calcium. Because the anticoagulant is pulverized, it allows a mixture with the blood almost immediate.

The quantity of additive is very small so there are no dilution mistakes (this may occur in the tubes with big additive liquid solution volumes).

There is no risk of anticoagulant loss when uncapping because it is adhered to the tube walls. The cap shape, both internal and external shape, assures a comfortable and reliable capping.

**A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.**

Supplied in plastic racks.

code	type of coagulant	description	case quantity	case weight	case volume
601402	spray	13 x 75 round for 4 ml blood	12 x 100	4.30	0.033
601403	spray	13 x 75 round for 2.5 ml blood	12 x 100	4.30	0.033
601412	spray	15 x 50 flat for 4 ml blood	10 x 120	4.80	0.033
601413	spray	15 x 50 flat for 2.5 ml blood	10 x 120	4.80	0.033

Pallet quantity code **601402** and **601403**: 48 cases.

Pallet quantity code **601412** and **601413**: 40 cases.



### Citrate for coagulation $\text{C}\epsilon$ (IVD)

Made of clear polypropylene, supplied capped and labeled.

Our sodium citrate, 3.8 % or 3.2 % concentration, buffered and sterile has a ratio citrate: blood 1:9 and is highly recommended for coagulation tests.

According to the prevailing rules, this liquid anticoagulant permits to determine the prothrombin time (Quick) **up to 12 hours after sample collection.**

The cap is not only easy-to-use but also assures a watertight closing; allowing a comfortable and reliable capping.

**A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.**

Tubes are supplied in plastic racks.

code	type of coagulant	description	case quantity	case weight	case volume
601102	buffered to 3.8 %	13 x 75 round for 4 ml blood	12 x 100	5.30	0.033
601103	buffered to 3.8 %	13 x 75 round for 2.5 ml blood	12 x 100	5.30	0.033
601203	buffered to 3.2 %	13 x 75 round for 2.5 ml blood	12 x 100	5.30	0.033

Pallet quantity: 48 cases.



### E.S.R. citrate tube

CE (IVD)

Capped and labeled transparent polypropylene tubes.  
Filled with 3.8% sodium citrate (anticoagulant).  
The citrate: blood ratio (according to the Westergren method) is 1:4, so the tubes contain 0.4 ml of stable 3.8 % sodium citrate solution. The printed fill line indicates 2.0 ml so 1.6 ml of blood will be added. The cap design results in a comfortable and reliable handling, specially because it is possible working with gloves without slipping.

**Volume fill line, expiry date and batch number are printed on the label; so the product traceability is guaranteed.**

Supplied in 100 units plastic racks.

code	description	case quantity	case weight	case volume
601006	round tube 13 x 75 mm for 2 ml (1.6 ml of blood)	12 x 100	5.30	0.033

Pallet quantity: 48 cases.

### Mailing container

Mailing container with safety screw blue cap, both manufactured in polypropylene **autoclavable**.

Leak proof.

Dimensions uncapped 128 x 30 mm. Ideal for 10 ml tubes.

The tube includes a piece of absorbent paper to prevent any leakage.

Container and cap are sold separately.

code	description	case quantity	case weight	case volume
401301	mailing container	500	7.70	0.08
401302	screw cap	500	2.00	0.03



### Blood group test plate

Made of ultra clear polystyrene.

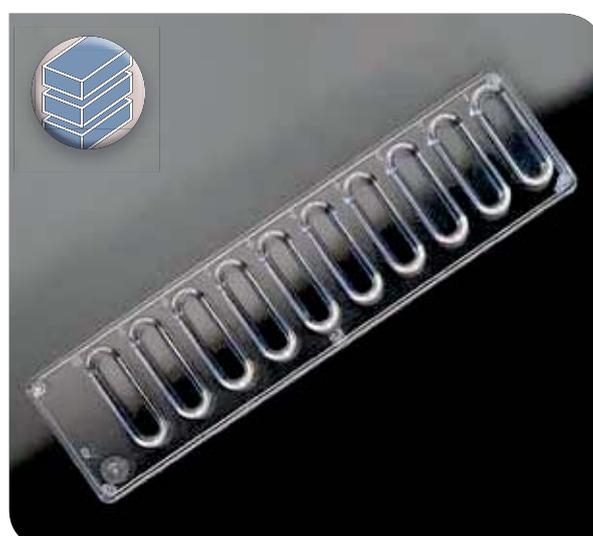
Features 10 numbered wells.

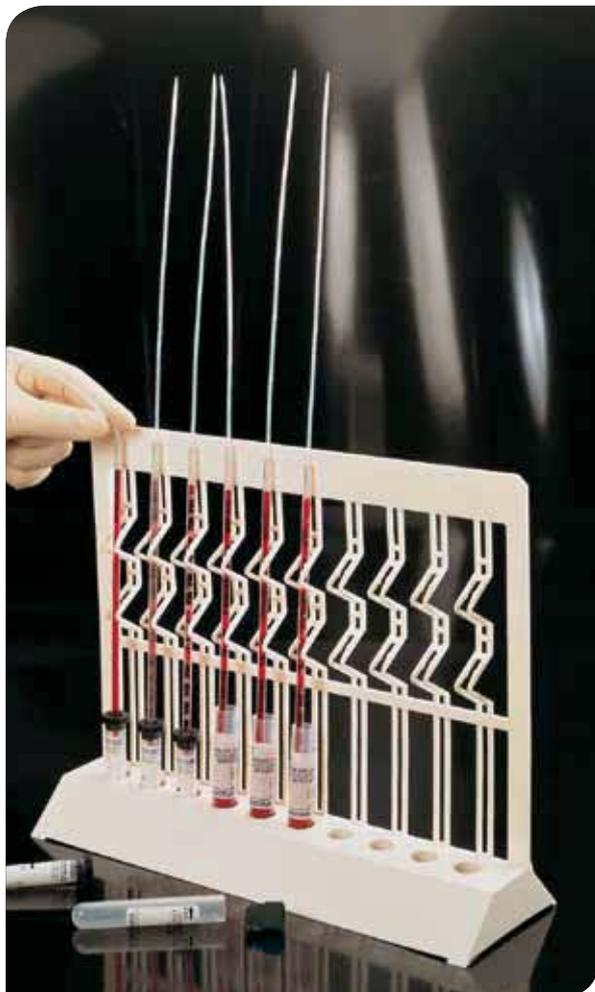
Stackable.

Dimensions: 160 x 40 x 6 mm.

Each case contains 50 bags of 10 units each.

code	description	case quantity	case weight	case volume
128030	blood group plate	50 x 10	7.20	0.029





### Closed E.S.R. system (micro system)

CE (IVD)

Pipette graduated from 0 to 160 mm, with a total length of 200 mm and an inner diameter of 2.5 mm, according to the Westergren Method.

The **system accepts a total volume of 1 ml.**

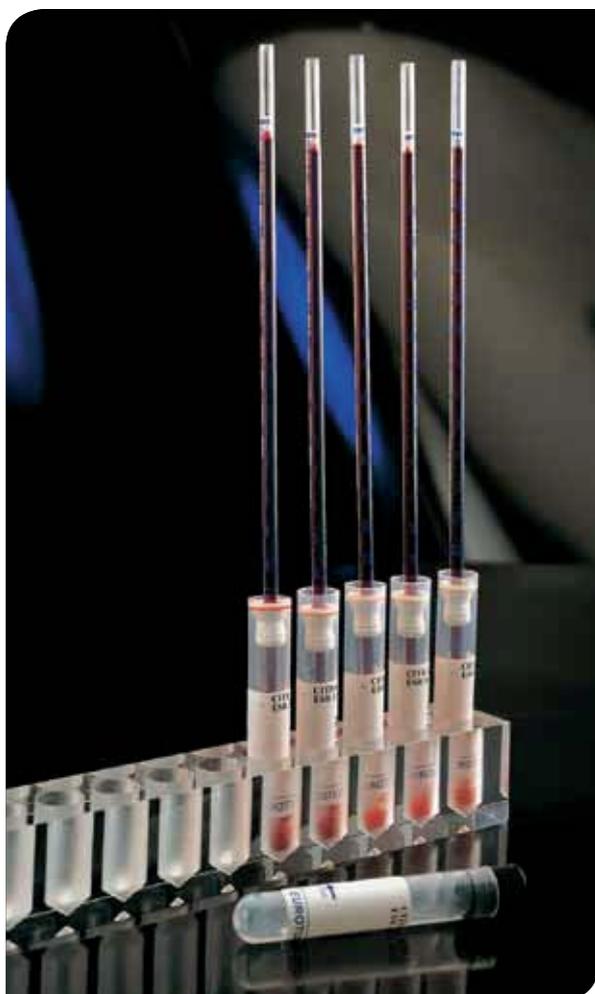
The plunger must be drawn up manually up to a limit inside the pipette to ensure an adequate volume of blood-citrate blend.

Two tubes available, both made of high transparency polypropylene: Code **1164**: for 1 ml of total volume (0.75 ml of blood); with a pierceable rubber cap that allows inserting the pipette without taking off the cap.

Code **601006**: for 2 ml of total volume (1.6 ml of blood); with a polyethylene cap that shall be taken off before inserting the pipette.

code	description	case quantity	case weight	case volume
<b>1360</b>	graduated pipette	2 x 500	3.35	0.008
<b>1361*</b>	stand for 10 pipettes	5	3.20	0.023
<b>601006</b>	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	5.30	0.033
<b>1164</b>	tube 12 x 55 mm with citrate with pierceable cap	10 x 100	2.50	0.024

\* Non CE product



### E.S.R. with self-levelling system

CE (IVD)

Consists of a polystyrene pipette with self-filling system using a plunger suitable for 12 mm or 13 mm Ø tubes.

Graduated from 0 to 180 mm. 1.25 ml blood-citrate mixture is enough for determination.

Westergren method.

code	description	case quantity	case weight	case volume
<b>29</b>	E.S.R. pipette, 230 mm long graduated up to 180 mm	3 x 200	3.00	0.028
<b>29/1*</b>	methacrylate holder for 12 tubes 13 x 75	1	0.18	0.0002
<b>601006</b>	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	5.30	0.033

\* Non CE product

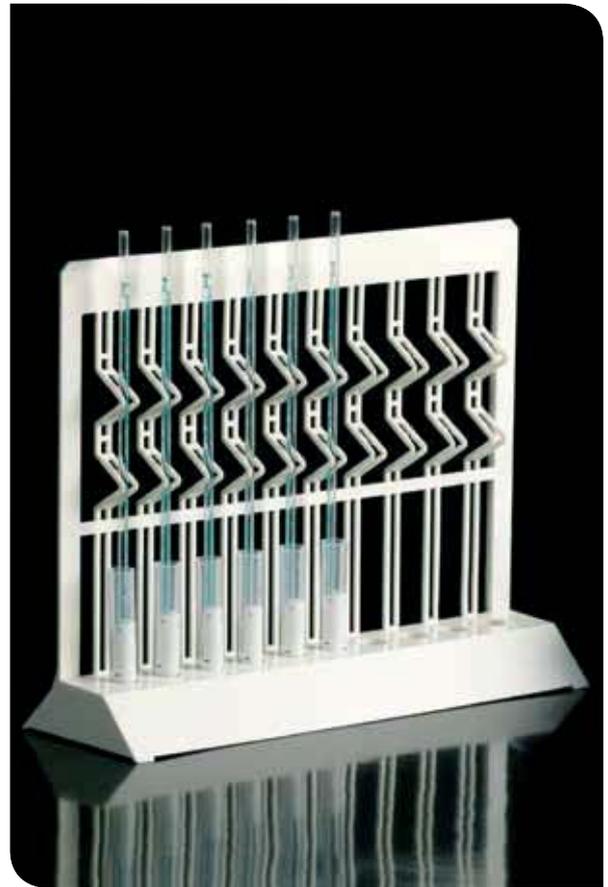
### E.S.R. system, CE (IVD)

The ESR system consists of a holder, a suction pump, a suction adapter and a set of pipettes with a polyethylene filter (suction tube not included).

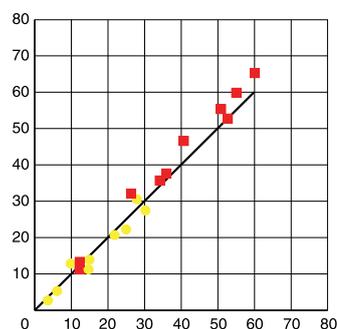
The holder accommodates up to 10 pipettes. Plastic pipettes are graduated up to 180 mm. Tubes are filled with sterile citrate (0.106 M). Westergren method.

code	description	case quantity	case weight	case volume
28	pipette graduated up to 180 mm, length 230 mm	600	3.05	0.010
1361*	holder to 10 places	5	3.20	0.023
601006	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	5.30	0.033

\* Non CE product



#### Comparison of the ESR reading obtained with the Micro system and standard type



ESR reading with MICRO system (mm)

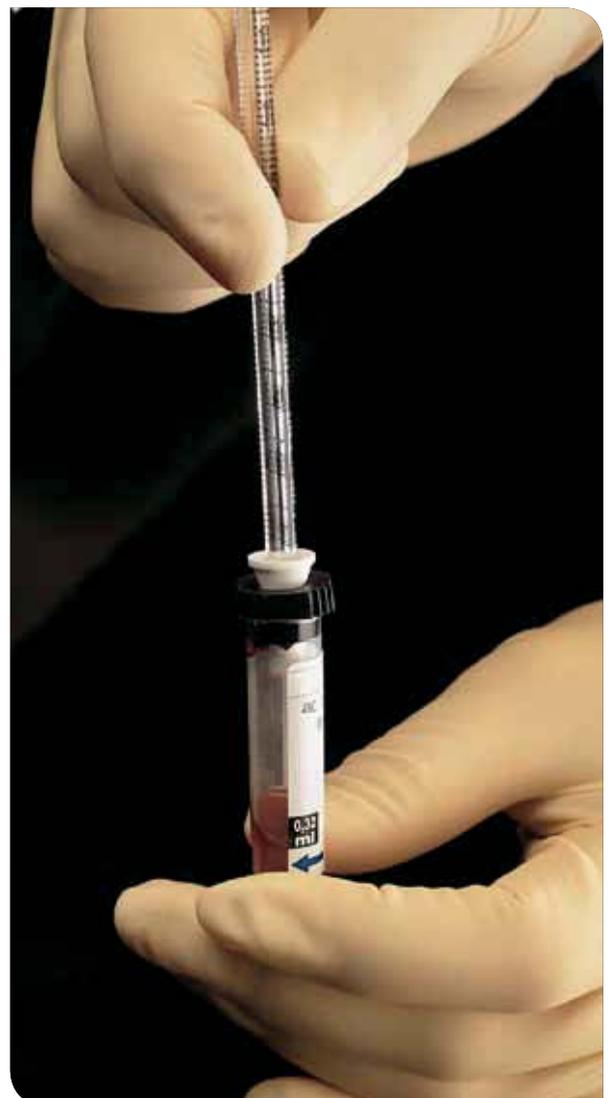
● Micro system reading at 50 minutes and with standard at 60 minutes.

■ Micro system reading at 100 minutes and with standard at 120 minutes.

### Sedirate micro system CE (IVD)

System for the determination of the erythrocyte sedimentation rate. Specially recommended for **Paediatrics**. The system consists of a tube and a pipette. The tube includes a pierceable and re-sealable stopper (same model as the stoppers presented on all our tubes on next page) filled with 0.08 ml of trisodic citrate 0.106 M for 0.32 ml of blood according to standards of Westergren standard method. The pipette of pressure filling has an inner diameter of 1.25 mm and is graduated. Once blood and citrate are mixed together, introduce the pipette into the tube (without removing the stopper). The blood will automatically reach the 0 level. The results obtained are comparable to those obtained with the standard method (macro). We recommend to use this system with the holder code 29/1 presented on the previous page.

code	description	case quantity	case weight	case volume
27	set pipette + tube	400	3.80	0.032





### Blood collection tubes with pierceable and re-sealable rubber caps

Manufactured from transparent polypropylene. Robust and resistant to breakage. Tubes feature a unique flexible rubber cap which has two cross cuts and is specially designed to reseal automatically after introduction or withdrawal of the sample. This system eliminates the need to remove the stopper when introducing or withdrawing blood samples. Tubes can be used with most manual, semi-automatic and automatic blood sampling machines, and are suitable for transportation by intra hospital pneumatic systems.



### Blood collection tubes

€ (IVD)

code	type	description	expiration months	case quantity	case weight	case volume
620800	serum separator	16 x 100 with gel for 10 ml	15	6 x 100	4.10	0.036
620300	serum separator	16 x 100 with granules for 10 ml	36	6 x 100	4.10	0.036
620400	serum separator	13 x 80 with granules for 4 ml	36	8 x 100	3.00	0.031
621611	edta tripotassium	16 x 55 skirted for 2.0 ml	24	10 x 100	4.00	0.037
621613	edta tripotassium	13 x 80 for 2.5 ml	24	8 x 100	3.00	0.031
621102	citrate for coagulation	12 x 70 for 2 ml	15	8 x 100	3.00	0.031

Pallet quantity: 50 cases.



### Special pediatrics

€ (IVD)

code	type	description	expiration months	case quantity	case weight	case volume
620200	serum separator	12 x 55 with granules for 2 ml	36	10 x 100	3.10	0.025
621610	edta tripotassium	12 x 55 for 1 ml	18	10 x 100	2.75	0.025
621101	citrate for coagulation	12 x 55 for 1 ml	15	10 x 100	2.80	0.025

Pallet quantity: 50 cases.

See speed sedimentation citrate for pediatrics in the previous page.

## CENTRIFUGATION GUIDELINES FOR EUROTUBO® TUBES

PROBLEM		POSSIBLE CAUSES	REASON FOR MISUSE	SOLUTION
<b>The barrier is not clearly defined.</b>	<b>Poor or incomplete serum separation. Barrier is intact and well defined.</b>	Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant.	The tube was not inverted for five times.	After tube is filled with blood and capped, gently invert the tube for 5 times.
		Early centrifugation, insufficient allowance coagulation time prior to centrifugation.	The recommended 30 min. standing time for coagulation was not observed.	Wait for 30 min before centrifugation.
		Centrifugation g-setting under appropriate value.	The tube was not centrifuged at or above the minimum, appropriate g-setting.	a) Set the centrifuge between 1,000-1,500 g. b) Confirm centrifuge is correctly calibrated.
	<b>Barrier is skewed and poorly formed, separation is incomplete.</b>	Less centrifugation time than recommended.	The tube was not centrifuged for the required time.	Centrifuge the tube at the appropriate g-force for at least 10 min.
Refrigerated centrifuge.		The temperature of the centrifuge was lower than the recommended	a) Keep the centrifuge at a temperature between 24 and 26°C (around 77 F). b) Thermally insulate the tube and avoid contact with the centrifuge and centrifuge rotor.	
<b>Blood tubes fracture during centrifugation.</b>		G-force centrifugation exceeded the tube construction.	The tube was subjected to g-forces exceeding 1,500 g	Maintain centrifuge at or below 1,500 g.
		Centrifuge not positioned level and/or foreign matter or debris inside the rotor of the centrifuge.	a) Shock absorbers or tube stand-off cushions absent. b) The inside of the rotor is not clean.	Install shock absorbers or tube stand-off cushions as required. Remove any foreign agent or debris that may be inside the centrifuge.
<b>Cell clumps observed within the separation barrier.</b>		Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant.	The tube was not inverted for five times.	Invert the tube for five times.
		Insufficient time before centrifugation	The recommended 30 min standing time for coagulation was not observed.	Wait for 30 minutes before centrifugation.
		Excessive g-force centrifugation.	The tube was centrifuged at above 1,500 g.	Set the centrifuge at a speed below 1,500 g.
<b>Presence of fibrin in serum.</b>		Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant.	The tube was not inverted for five times.	Invert the tube for five times.
		Early centrifugation, insufficient allowance coagulation time prior to centrifugation.	The recommended 30 min standing time for coagulation was not observed.	Wait for 30 minutes before centrifugation.
<b>Abnormal assay results.</b>		Poor serum quality due to haemolysis.	Blood subject to aggressive agitation or rough handling.	Handle tube with moderation. Invert gently. Never shake severely or agitate the tube.
		Excessive g-force centrifugation.	The tube was centrifuged above 1,500 g.	Set the centrifuge to a maximum of 1,500 g g-force.





### Anticoagulants and preservatives in containers

Available in bottles of 15 ml.

The dosage of 1 drop (15 ml = 300 drops) is enough for 5 ml of blood.

Both products have preservatives for stability.

code	description	case quantity
705000	lithium heparin 15 ml	10
705010	tripotassium edta 15 ml	10



### Special techniques

#### Liquid for thrombocyte count determination:

Due to its optical characteristics it identifies the thrombocyte avoiding confusion with other cells. This reagent also prevents adhesion and aggregation of the thrombocytes.

Full instructions are included with the kit.

#### Test of osmotic brittleness of the erythrocytes:

The test for the erythrocyte osmotic fragility detects the resistance of these cells to haemolysis, in hypotonical solutions with decreasing concentration of sodium chloride.

This set contains 2 complete tests and each one is composed of 12 tubes with stable and buffered solutions. Full instructions are included in the kit.

code	description	case quantity	case weight	case volume
800000	thrombocyte counting kit 1 x 50 tubes	30 kits	5.50	0.046
802000	osmotic brittleness of erythrocytes kit 2 x 12 plus 2 lithium heparine tubes	30 kits	7.50	0.046

Minimum order quantity: 1 kit.



### Reticulocyte staining kit

CE (IVD)

This simple to use kit consists of a tube containing 100 µl of stable buffered bright cresil blue stain which allows the determination of the erythrocyte count.

Two to three drops of blood are added directly to the tube and incubated for 10 minutes at room temperature.

The erythrocytes become a pale blue colour making them easy to identify.

Full instructions are included with the kit.

Tube made of polypropylene and cap of mauve polyethylene.

code	description	case quantity	case weight	case volume
801000	reticulocyte count kit (1 x 50 tubes)	30 kits	5.50	0.046

Minimum order quantity: 1 kit.

### Haematological stains CE (IVD)

Please see more information about these stains at Chapter 5. Microscopy and Staining, along with information about our Stains for Microbiology.

code	description		case quantity	case weight	case volume
<b>808000</b>	Eosin, solution, May Grunwald, 250 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45		16	6.00	0.046
<b>808001</b>	Eosin, solution, May Grunwald, 1000 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45		12	13.00	0.046
<b>808100</b>	Eosin, solution modified Giemsa, 250 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45		16	6.00	0.046
<b>808101</b>	Eosin, solution modified Giemsa, 1000 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45		12	13.00	0.046
<b>808200</b>	Eosin, solution Wright, 250 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45		16	6.00	0.046
<b>805013</b>	fast stain for blood extensions, 250 ml containers, 2 containers A, 2 containers stain B		12	20.00	0.046



### Microhaematocrit capillary tubes CE (IVD)

Soda neutral glass tubes with a colour-coded print for an easier identification, with heparin (red) or without heparin (blue). Supplied inside a glass tube with a plastic cap, specifying code, lot and expiry date.

Two lengths available: 70 or 75 mm.

Internal diameter: 1.15 mm, external diameter: 1.55 mm.

They meet ISO 12772.

code	description	case quantity	case weight	case volume
<b>7301</b>	75 mm with heparin	10 x 100	0.36	0.001
<b>7311</b>	75 mm without heparin	10 x 100	0.36	0.001
<b>7401</b>	70 mm with heparin	10 x 100	0.36	0.001
<b>7411</b>	70 mm without heparin	10 x 100	0.36	0.001



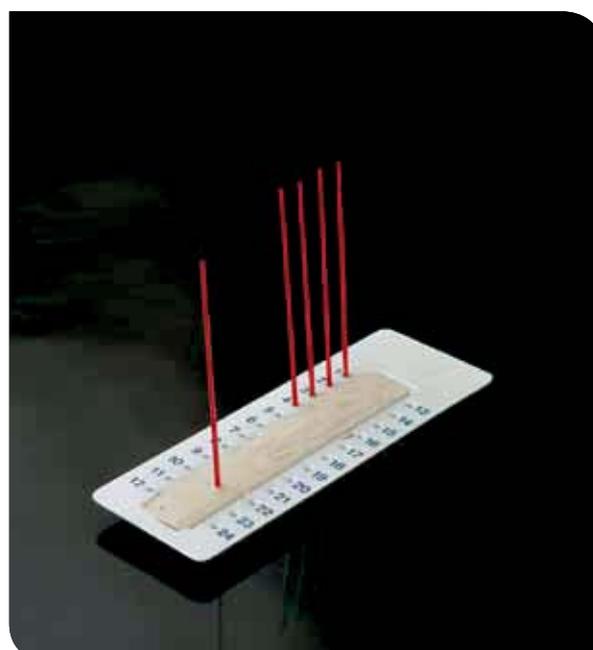
### Capillary tubes sealing wax

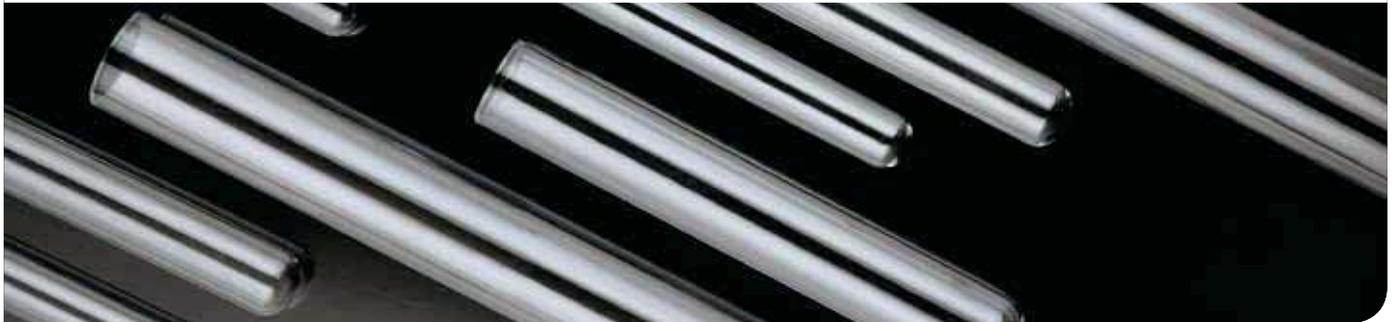
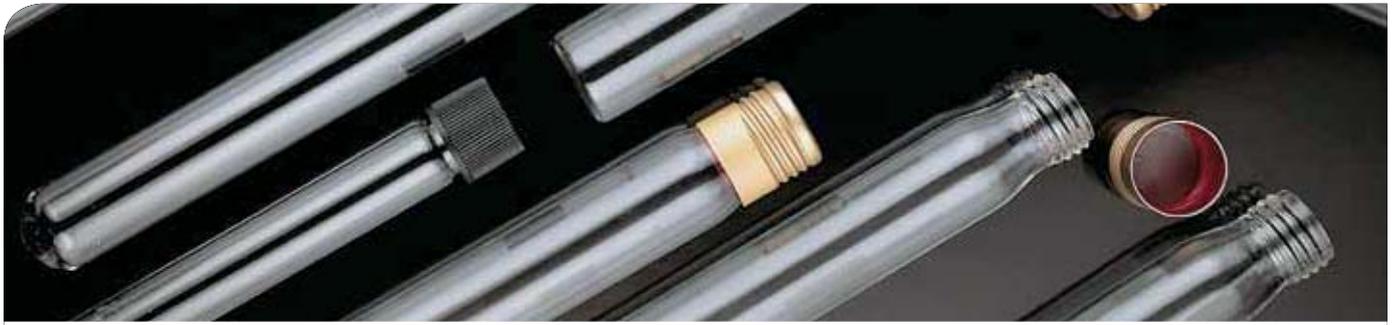
Vinyl plastic wax, in a numbered (from 1 to 24) plastic holder.

Suitable for all capillary tubes, specially for those that have to be centrifuged, like microhaematocrit capillary tubes.

Must be preserved in temperatures from 8 °C to 30 °C.

code	description	case quantity	case weight	case volume
<b>7600</b>	sealing wax	3	0.050	0.001

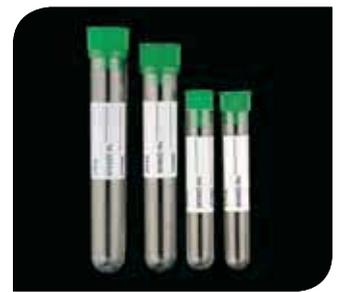
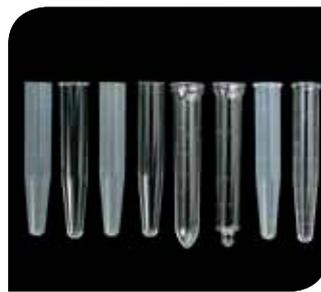
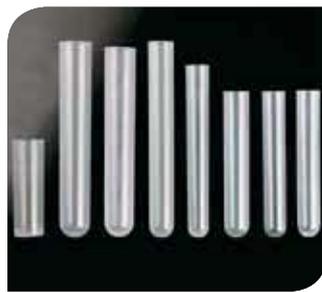
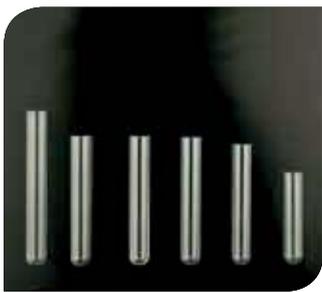




**Please see our plain, glass tubes on Chapter 7. Tubes and Microtubes**

Soda or borosilicate glass.  
Round bottom.

Nine different volumes, from 4 to 47 ml.  
Also available screw cap tubes.

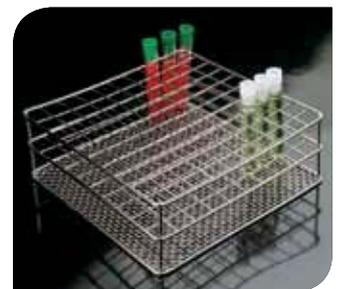


**Please see our plain, plastic tubes on Chapter 7. Tubes and Microtubes**

Polystyrene or polypropylene tubes.  
Different bottoms available:

- Round.
- Conical.
- With special base for sedimentation.

Graduated and non graduated.  
Volumes from 3 to 17 ml.  
Fourteen different caps depending on the tube and the application.  
Capped and labeled versions are available.



**Please see our racks on Chapter 10. Sample storage and Cryogenics**

Folding racks manufactured in polypropylene.  
Polypropylene racks for freezing.

Z racks in aluminum or stainless steel.  
Racks in stainless steel mesh.

### Spectrophotometer cuvettes

Disposable cuvettes suitable for most of the open spectrophotometers. Homogeneous measures, specially of the surface crossed by the light beam, assuring an optimum transmission level on the whole visible spectral.

The material used avoids any possible measurement interference. Due to the strict quality control during the manufacture process, a high reliability is assured. The maximum absorption variations are +/- 1 %.

Light beam width: for 10 mm. The two sides not crossed by the light beam are ribbed to an easy identification of the cuvette position inside the spectrophotometer measurement chamber, resulting in an easy positioning and removal.

They are supplied in a dust proof, expandable polystyrene box (100 units per box) with lid.

### Standard cuvettes

Made of polystyrene for assays in the visible spectral range (340 to 750).

	code	description	case quantity	case weight	case volume
1	<b>302000</b>	4.5 ml macro	5 x 100	1.60	0.018
2	<b>302100</b>	1.5 ml micro	5 x 100	1.60	0.018
3	<b>302400</b>	2.5 ml semimicro	5 x 100	1.60	0.018 <i>New</i>

### Special UV grade cuvettes

Made of UV grade PMMA for accuracy throughout UV/Vis range (280 to 800).

Model **303100** with four clear sides is ideal for fluorometry and nephelometry.

	code	description	case quantity	case weight	case volume
3	<b>303100</b>	4.5 ml four sides transparent	5 x 100	1.60	0.018
4	<b>303101</b>	2.5 ml semimicro	5 x 100	1.60	0.018
5	<b>303102</b>	4.5 ml macro	5 x 100	1.60	0.018
6	<b>303103</b>	1.5 ml micro	5 x 100	1.60	0.018 <i>New</i>

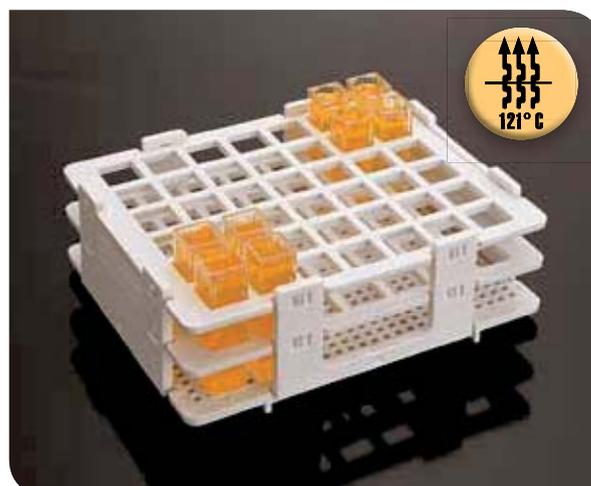
### Cap

In polyethylene. Suitable for the macro cuvettes, 4.5ml (**302000**, **303100**, and **303102**)

	code	description	case quantity	case weight	case volume
7	<b>304000</b>	polyethylene cap	1,000	1.05	0.018 <i>New</i>

Please see our rack for the spectrophotometer cuvettes, code **M-100**, on Chapter 10. Sample Storage and Cryogenics.

- Polypropylene
- **Autoclavable**
- Assembling rack that saves space
- Capability: 42 cuvettes





### Sample cups

Polystyrene cups, with polyethylene caps.

mod.	code	description	type	Ø ext. mm	h mm	case quantity	case weight	case volume
1	900024	0.50 ml	Gemsaec, Kone Lab 20	13.55	24.50	10 x 1,000	12.70	0.069
2	900023	0.25 ml	Centrifichem	13.70	16.40	14 x 1,000	15.00	0.069
3	900022	1.50 ml	Technicon	13.80	22.60	10 x 1,000	10.60	0.069
4	192503	1.50 ml	Technicon RA 1000	13.90	24.70	12 x 1,000	6.00	0.071
5	910022	2.00 ml	Technicon	13.75	24.90	10 x 1,000	10.00	0.080
6	900026	push on cap suitable, for all models	–	16.00	8.50	20 x 1,000	3.50	0.069
7	911026	anti-evaporation cap, pierceable, for models 1 and 2	–	15.70	5.90	10 x 1,000	3.20	0.024



### Cobas Mira cuvette segments

Multicuvettes made of PMMA.

Rack made of polypropylene (colour: red).

For use on Cobas Mira.

Light path: 6 mm.

Complete rack with 15 segments of 12 cuvettes.

code	description	case quantity	case weight	case volume
900019	complete rack: 15 segments of 12 cuvettes	30	9.00	0.040



### Coulter counter cups

Coulter counter cups: single use polystyrene cups suitable for any Coulter counter for cell counting.

Two models available, with or without lid.

Volume: 20 ml.

Dimensions: 30 x 56 mm (Ø x h).

code	description	case quantity	case weight	case volume
200103	coulter counter cup with lid	1,000	7.80	0.087
200102	coulter counter cup without lid	1,400	8.70	0.120



### Sample cups

Cups are made of polystyrene, except code 900008 which is made of HDPE.

mod.	code	description	type	Ø ext. mm	h mm	case quantity	case weight	case volume
1*	<b>900005.1</b>	1.5 ml, cup with steel	Amelung	18.65 / 11.25	22.8	12 x 1,000	9.40	0.092
2	<b>900020</b>	2.50 ml	Hitachi	16.75	38.0	6 x 1,000	10.75	0.069
3	<b>900008</b>	0.70 ml	Cobas bio	7.65	35.5	12 x 1,000	8.35	0.067
4	<b>910023</b>	4.00 ml	Technicon	16	37.9	6 x 1,000	12.20	0.069
5	<b>910026</b>	0.5 ml (0.8 ml total volume)	Systemex	9.95 / 7.94	29.8	10 x 2,000	12.5	0.056

\* 12 bags of 1,000 sample cups and 12 dispenser containers of 1,000 balls.

### Scintillation vials

Single use vials made of high density polyethylene to minimize solvent losses.

Screw caps ensure a leakproof seal.

Compatible with most liquid scintillation counters available on the market.

2 models available: code **900100**, standard volume 20 ml, and code **900101**, volume 4 ml, designed for insertion in the 20 ml vial so as to minimize the volume of scintillation liquid.

**Dimensions:** Vial 20 ml: 26.5 x 58.5 mm (Ø x h)

Minivial 4 ml: 13.71 x 53.15 mm (Ø x h).

code	description	case quantity	case weight	case volume
<b>900100</b>	scintillation vial (20 ml)	1,000	7.90	0.069
<b>900101</b>	minivial (4 ml) for the above vial	2,000	5.90	0.042



### Beakers for cell counters

Single use beakers ideal for dilutions and cell counting in Toa and Royco-Hycel cell counters.

Both models are made of polyethylene.

code	baker type	Ø mouth mm	Ø base mm	h mm	vol. ml.	case quantity	case weight	case volume
<b>1988314</b>	Toa	30,5	25	68,6	30 ml	3,000	6.54	0.039
<b>1988315</b>	Royco-Hycel	30.5	26	57,5	25 ml	3,000	6.50	0.039









### Polyethylene wide mouth jars with lid and insert plug

High density Polyethylene jars with screw cap and insert plug. Jars and plugs are natural translucent; lids are black.

Upon request, jars can be supplied individually wrapped for a minimum order of 3 cases for each code, and sterile for a minimum order of 6 cases, for each code.

code	capacity ml	Ø neck mm	Ø base mm	height mm	case quantity	case weight	case volume
202811	30	25	32	53	100	1.00	0.011
202810	60	38	52	48	200	4.00	0.049
202808	90	51	60	51	150	3.80	0.049
202809	125	51	60	62	200	5.00	0.087
202801	170	51	60	80	160	4.70	0.087
202802	250	54	67	100	125	4.70	0.087
202814	400	60	74	124	130	9.00	0.140
202803	500	67	80	131	120	8.40	0.140
202821	500	86	103	93	95	9.00	0.140
202813	750	86	103	127	75	7.70	0.140
202818	1,000	86	103	157	50	5.80	0.140

See more capacities on pages 258-259.



### Jars with lid

Body and lid in white **autoclavable** polypropylene. Self sealing security lid.

Suitable for alimentary use.

1,560 ml jar embodies a plastic handle.

Jars are supplied uncapped.

Cases per pallet: 24, excepting code **241010**, palletized in 40 cases.

code	nominal capacity ml	Ø int. mouth x Ø base x height mm	weight g	case quantity	case weight	case volume
241010	250	84.5 x 79.5 x 62	18	150	3.00	0.046
241011	550	107 x 98 x 80	32	250	5.00	0.082
241012	825	111.5 x 112 x 101.5	38	180	3.20	0.082
241013	1,000	112.5 x 112 x 137.5	46	150	4.20	0.082
241014	1,560	133.5 x 134 x 140	58	150	4.40	0.082



### Tamper evident, buckets with lid

Disposable containers made of **autoclavable** polypropylene. Suitable for alimentary use. Include tight fitting and leakproof lids. All models, include a sturdy and convenient white plastic handle for easier carrying.

Buckets are supplied with lid apart.

code	capacity ml	Ø int. mouth mm	height mm	body weight g	case quantity	case weight	case volume
222802	2,500	184.00	137.50	105.00	80	9.00	0.140
222803	4,400	210.00	156.00	134.00	48	9.50	0.140
222804	5,600	211.00	194.00	152.00	45	10.00	0.140
222805	10,700	251.00	263.00	314.00	20	10.50	0.140



### EUROTUBO® Leak proof screw cap containers

CE (IVD)

Specially designed for histology, they are provided with double internal security closure. Manufactured in translucent polypropylene with polyethylene ribbed yellow cap. They have moulded graduations in increments of 50 ml, and a ring in the upper part of the container that prevents dripping when decanting liquids. Its leakproof closure makes them ideal for liquid (including alcohols) or solid sample storage.

They meet the standard UNE-EN 14401:2005 Rigid plastic containers. Methods to test the effectiveness of closures. Supplied uncapped. Other cap colours available upon request.

mod.	code	capacity ml	external mouth Ø mm	height mm	case quantity	case weight	case volume
1	<b>202845</b>	250	89	57	100	5	0.046
2	<b>202846</b>	500	90	110	200	11.5	0.082
3	<b>202847</b>	1,000	111	139	100	11.4	0.096

**Ask for our special containers with Formaldehyde**

### Security screw cap containers

CE (IVD)

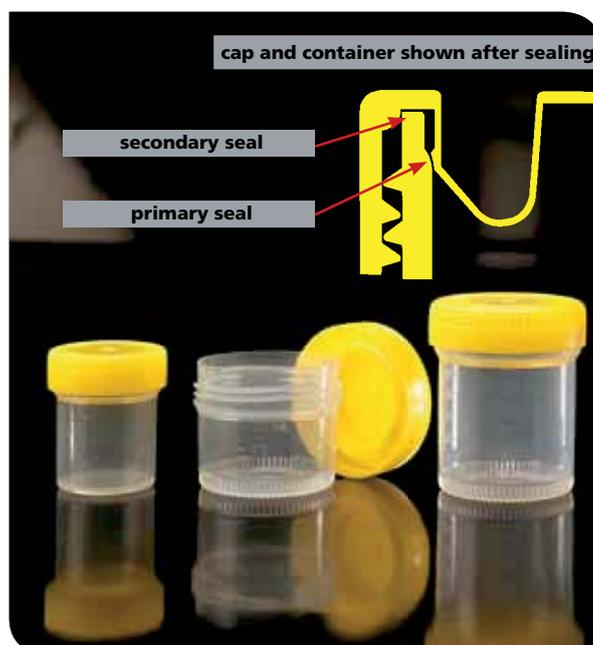
Ultra clear polypropylene containers with yellow polyethylene cap. Watertight closure: the cap, with an innovative shape, has a double closure. Graduated Container.

The base and the cap are ribbed so the handling with gloves is comfortable and reliable.

There is a ring in the upper part of the body, in order to avoid the dripping in case of liquid decanting.

Six different capacities from 20 to 120 ml.

**Find more information about this product on Chapter 8. Containers**





### Paraplast Plus® Paraffin

CE (IVD)

It has a low dimethylsulphoxide content and a quick penetration of tissues for 2 micron cuts.

Melting point: 56/58 °C.

Can be used with usual solvents.

Ideal for histology.

code	description	case quantity	case weight	case volume
440139	bag of 1 kg	8 bags	9.0	0.026



### Histology mould

Single use clear polypropylene mould. Can be re-used.

The smooth interior ensures the paraffin does not adhere to the mould. The special material used ensures excellent thermal exchange. Available in various sizes.

External dimensions: 50 x 37.2 x 12 mm.

Suitable for the most of cassettes.

mod.	code	well dimensions mm	case quantity	case weight	case volume
1	440130	7 x 7 x 5	1,000	2.20	0.10
2	440131	15 x 15 x 5	1,000	2.20	0.10
3	440132	24 x 24 x 5	1,000	2.20	0.10
NEW 4	440133	30 x 24 x 5	1,000	2.20	0.10
NEW 5	440134	37 x 24 x 5	1,000	2.20	0.10

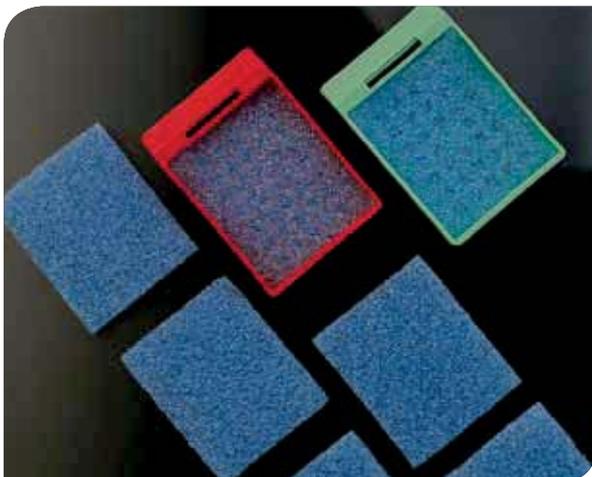


### Metal tray histology

Material: stainless steel.

External dimensions: 52 x 35 x 11 mm.

code	well dimensions mm	bag quantity	bag weight	bag volume
192931	7 x 7 x 9	10	0.20	0.001
192932	15 x 15 x 6	10	0.20	0.001
192933	24 x 24 x 6	10	0.20	0.001
192934	30 x 24 x 6	10	0.20	0.001
192935	37 x 24 x 6	10	0.20	0.001



### Tissue embedding sponge

Foam sponge, very useful for small specimens in biopsy tests.

Fits standard cassettes.

Avoids sample loss though drain holes when sample is processed.

Does not affect paraffin drainage.

code	dimensions mm	colour	case quantity	case weight	case volume
192922.04	31 x 25 x 3	blue	500	0.250	0.015

## Forceps

Made of P.O.M.

Colour: orange.

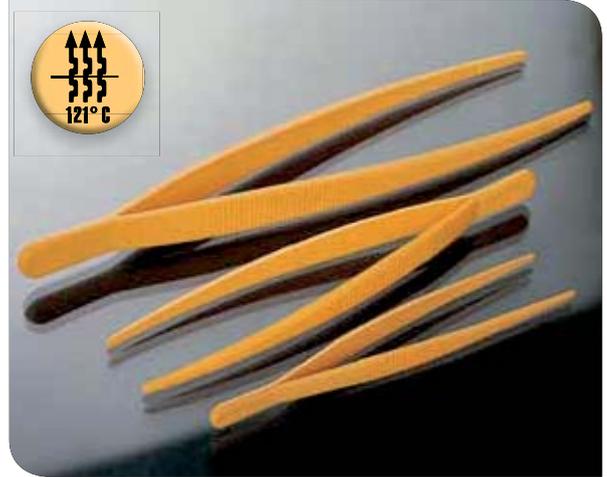
Self-sprung forceps with rounded ends.

Code **19503**, the inner part of the tip is ribbed to enhance sampling.

Ribbed for a better handling.

**Autoclavable.** Flexible.

code	length mm	case quantity	case weight	case volume
<b>19500</b>	115	5	0.02	0.0010
<b>19501</b>	145	5	0.06	0.0010
<b>19503</b>	250	5	0.08	0.0010



## Cassettes without lid

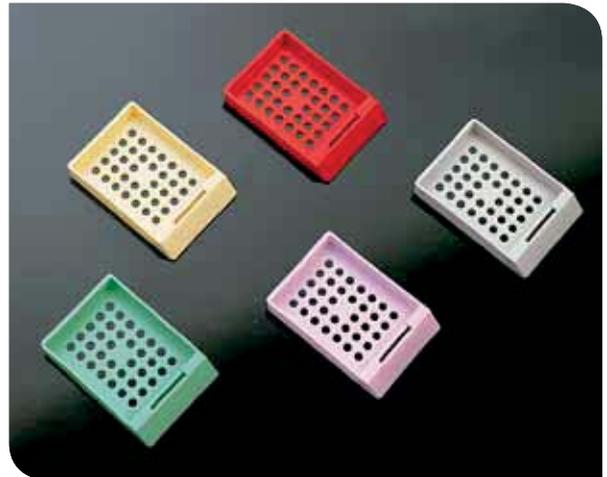
Made of polyacetylene.

With 34 round holes of 2 mm Ø.

Resistant to the solvents used in histological processes. It is possible to write on them.

External dimensions: 40 x 28 x 6 mm.

code	colour	case quantity	case weight	case volume
<b>440141</b>	white	3 x 1,000	7.00	0.040
<b>440147</b>	green	3 x 1,000	7.00	0.040
<b>440144</b>	pink	3 x 1,000	7.00	0.040
<b>440146</b>	red	3 x 1,000	7.00	0.040
<b>440143</b>	yellow	3 x 1,000	7.00	0.040



## Lids for cassettes

Stainless steel lids.

Fit all standard cassettes.

Suitable for **440141** and series.

code	description	case quantity	case weight	case volume
<b>440149</b>	lid for cassettes	25	0.10	0.0001



## Cassette for biopsy 6 compartments

Material: polyacetylene.

Designed for small biopsies, each cassette has six individual cells to hold six samples.

Each cell is 7 x 12 mm. The lid allows multiple opening and closing.

A frosted area allows writing on the cassette.

Each cassette has near 3,000 micro holes of 0.26 mm diameter.

code	colour	case quantity	case weight	case volume
<b>44240</b>	pink	4 x 250	5.20	0.026
<b>44241</b>	white	4 x 250	5.20	0.026
<b>44245</b>	blue	4 x 250	5.20	0.026

Ask for minimum quantity and delivery time of other colours.



### CASSETTES HISTOSETTE I

- Made of polyacetal.
- Air vents allowing more efficient filling with paraffin.
- Safety closure.
- External dimensions: 40 x 28 x 6 mm (with closed lid)
- With one-piece integral lid.
- To lock the cassette, just snap apart the lid, turn it round and lock it into the base of the cassette.
- They may be opened and closed as many times as required.

### HOW TO USE



### Cassettes pour tissus. Histosette I

Writing area at 30° or 45° angle, depending on the code.  
64 cuts (1 x 5 mm) in base and lid, distributed 16 x 4.

code 30°	code 45°	colour	case quantity	case weight	case volume
454141	<b>NEW</b> 454111	white	3 x 500	5.40	0.040
454147	<b>NEW</b> 454117	green	3 x 500	5.40	0.040
454140	<b>NEW</b> 454110	pink	3 x 500	5.40	0.040
454143	<b>NEW</b> 454113	yellow	3 x 500	5.40	0.040
454148	<b>NEW</b> 454118	blue	3 x 500	5.40	0.040

Ask for minimum quantity and delivery time for other colours.



### Cassettes for biopsy. Histosette I

Writing area at 45° angle.  
224 draining holes (1 x 1 mm).

code	colour	case quantity	case weight	case volume
554111	white	3 x 500	5.40	0.040
554117	green	3 x 500	5.40	0.040
554110	pink	3 x 500	5.40	0.040
554113	yellow	3 x 500	5.40	0.040

Ask for minimum quantity and delivery time for other colours.



### Cassettes for tissue

Made of acetal polymer. With an integral lid.  
Small tab on the lid for easy opening and locking.

code	colour	case quantity	case weight	case volume
554141	white	4 x 500	7.58	0.060
554147	green	4 x 500	7.58	0.060
554140	pink	4 x 500	7.58	0.060
554143	yellow	4 x 500	7.58	0.060
554148	blue	4 x 500	7.58	0.060

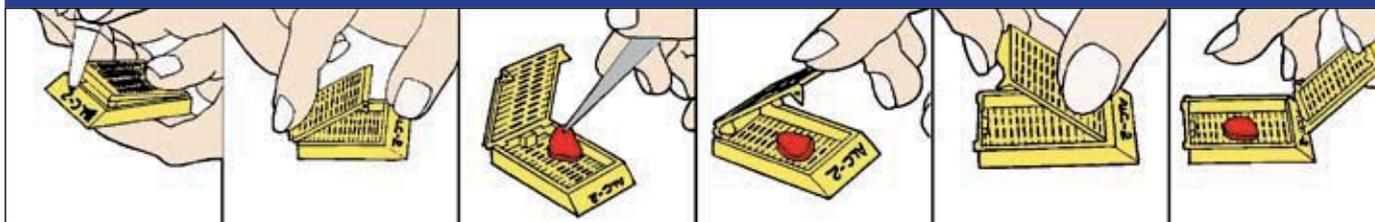
## CASSETTES HISTOSETTE II

- Made of polyacetal.
- Hinged lid: can be opened and closed as often as necessary.
- Supplied assembled, saving time and making storage easier.
- External dimensions: 41 x 28 x 6 mm.
- Air vents allowing more efficient filling with paraffin.
- Easy handling with one hand.
- Safety closure (see figure).
- Writing area slanted at a 45° angle, suitable to be used with most labelling instruments.

security closure



## HOW TO USE



### Cassettes for tissue. Histosette II

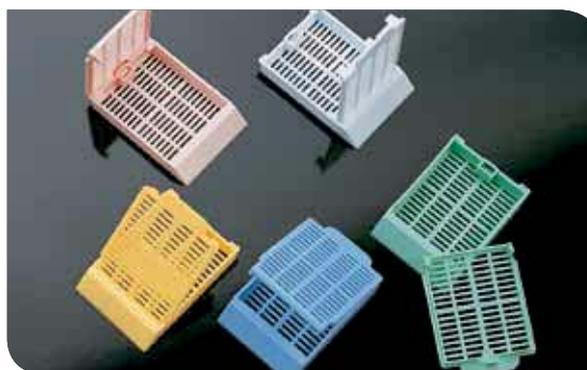
Material: acetal polymer. 64 cuts in base and lid.  
Cassettes and lids are available: pre-mounted, or with the lid separated in another case.

code	colour	case quantity	case weight	case volume
<b>Cassettes with the lid pre-mounted:</b>				
44140	pink	3 x 500	5.00	0.026
44141	white	3 x 500	5.00	0.026
44143	yellow	3 x 500	5.00	0.026
44145	blue	3 x 500	5.00	0.026
44147	green	3 x 500	5.00	0.026

#### Cassettes with the lid separated:

441140	pink	2 x 500*	3.50	0.026	NEW
441141	white	2 x 500*	3.50	0.026	NEW
441143	yellow	2 x 500*	3.50	0.026	NEW
441145	blue	2 x 500*	3.50	0.026	NEW
441147	green	2 x 500*	3.50	0.026	NEW

\* Two dispensing boxes with 500 cassettes each plus one box containing 1,000 lids.



### Cassettes for biopsy. Histosette II

Made of acetal polymer. 224 holes. 1 mm square openings to maximize fluid exchange and to ensure proper drainage.  
Cassettes and lids are available: pre-mounted, or with the lid separated in another case.

code	colour	case quantity	case weight	case volume
<b>Cassettes with the lid pre-mounted:</b>				
445140	pink	3 x 500	5.20	0.026
445141	white	3 x 500	5.20	0.026
445143	yellow	3 x 500	5.20	0.026
445145	blue	3 x 500	5.20	0.026
445147	green	3 x 500	5.20	0.026

#### Cassettes with the lid separated:

451240	pink	2 x 500*	3.90	0.026	NEW
451241	white	2 x 500*	3.90	0.026	NEW
451243	yellow	2 x 500*	3.90	0.026	NEW
451245	blue	2 x 500*	3.90	0.026	NEW
451247	green	2 x 500*	3.90	0.026	NEW

\* Two dispensing boxes with 500 cassettes each plus one box containing 1,000 lids.



## CASSETTES SLIMSETTE

- Made of polyacetal.
- Hinged lid: can be opened and closed as often as necessary.
- Supplied assembled, saving time and making storage easier.
- Hinged lid may be separated if required.
- Dimensions: 41 x 28.5 x 6 mm.
- Easy handling with one hand.
- Safety closure.
- Air vents allowing more efficient filling with paraffin.
- Writing area slanted at a 45° angle, suitable with most labeling instruments.

- Only 6 mm high, allowing more cassettes to be stacked in automated labeling machines and in storage cabinets.

- Three versions available: single cassettes; in sleeves for automatic labeling instruments; in stacks for Leica® and Sakura® labeling instruments



## Cassettes for tissue. Slimsette

Quick drainage thanks to 114 vents each measuring 5 x 1 mm.

code	colour	case quantity	case weight	case volume
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## SINGLE CASSETTES

(The main case contains three dispenser boxes of 500 cassettes each)

555140	pink	3 x 500	5.01	0.025
555141	white	3 x 500	5.01	0.025
555143	yellow	3 x 500	5.01	0.025
555147	green	3 x 500	5.01	0.025
555148	blue	3 x 500	5.01	0.025

## SLEEVES

(each case contains 10 sleeves of 75 cassettes)

555150	pink	10 x 75	3.29	0.015
555151	white	10 x 75	3.29	0.015
555153	yellow	10 x 75	3.29	0.015
555157	green	10 x 75	3.29	0.015
555158	blue	10 x 75	3.29	0.015

## STACKS FOR LEICA® AND SAKURA®

(each case contains 50 stacks of 40 cassettes)

555250	pink	50 x 40	6.84	0.022
555251	white	50 x 40	6.84	0.022
555253	yellow	50 x 40	6.84	0.022
555257	green	50 x 40	6.84	0.022
555258	blue	50 x 40	6.84	0.022

Ask for minimum quantity and delivery time for other colours.

## Cassettes for biopsy. Slimsette

Quick drainage thanks to its 224 vents (0.8 x 0.8 mm).

code	colour	case quantity	case weight	case volume
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## SINGLE CASSETTES

(The main case contains three dispenser boxes of 500 cassettes each)

44150	pink	3 x 500	5.01	0.025
44151	white	3 x 500	5.01	0.025
44153	yellow	3 x 500	5.01	0.025
44155	blue	3 x 500	5.01	0.025
44157	green	3 x 500	5.01	0.025

## SLEEVES FOR THERMO SCIENTIFIC SHANDON®

(Each case contains 10 sleeves of 75 cassettes)

44250	pink	10 x 75	3.29	0.015
44251	white	10 x 75	3.29	0.015
44253	yellow	10 x 75	3.29	0.015
44255	blue	10 x 75	3.29	0.015
44257	green	10 x 75	3.29	0.015

## STACKS FOR LEICA® AND SAKURA®

(ach case contains 50 stacks of 40 cassettes)

44350	pink	50 x 40	6.84	0.022
44351	white	50 x 40	6.84	0.022
44353	yellow	50 x 40	6.84	0.022
44355	blue	50 x 40	6.84	0.022
44357	green	50 x 40	6.84	0.022

Ask for minimum quantity and delivery time for other colours.

## CASSETTES SWINGSETTE

- Made of polyacetal.
- Cassettes type Richard-Allan® and Surgipath® Multi-Cassette (Leica)
- Hinged lid: can be opened and closed as often as necessary.
- Supplied assembled, saving time and making storage easier.
- Dimensions: 42 x 28 x 6 mm.
- Large tab for convenient an easy opening
- Easy handling with one hand.
- Safety closure.
- Writing area at 45°, suitable for most automatic labelers.
- Air vents allowing more efficient filling with paraffin.

### Cassettes for tissues. Swingsette

Designed to hold tissue specimens.

64 holes of approximately 0.76 x 5.06 mm;  
distributed 16 x 4.

code	colour	case quantity	case weight	case volume
415141	white	3 x 500	5.44	0.025
415143	yellow	3 x 500	5.44	0.025
415147	green	3 x 500	5.44	0.025

Ask for minimum quantity and delivery time for other colours.



### Cassettes for biopsy. Swingsette

Designed to hold biopsy specimens.

224 holes of approximately 0.76 x 0.76 mm.

code	colour	case quantity	case weight	case volume
414141	white	3 x 500	5.44	0.025
414143	yellow	3 x 500	5.44	0.025
414147	green	3 x 500	5.44	0.025

Ask for minimum quantity and delivery time for other colours.



### Mega cassettes

Made from polyacetal.

With an integral lid.

Designed for larger tissue samples.

Holes are 1 x 5 mm.

Cassette dimensions: 26 x 40 x 13 mm.

code	colour	case quantity	case weight	case volume
44125	white	500	2.57	0.025

Ask for minimum quantity and delivery time for other colours.





### Storage cabinet

Made of ABS. Marble color.

This storage cabinet with lid includes 5 drawers and is designed for the storage of small units such as slides or embedding rings.

Drawers are designed to hold ABS racks code **19921**.

The storage cabinet can hold a total of 5,000 slides, as each drawer can hold 10 racks and each rack can hold 100 slides.

Each slot on the rack is numbered.

Polystyrene covers for the racks are available (code **19920**).

A four wheel support (code **19931**) is also available for the cabinet.

code	description	case quantity	case weight	case volume
<b>19930</b>	420 x 420 x 730 mm	1	8.10	0.14
<b>19931</b>	4 wheels	1 x 4	0.90	0.0009
<b>19921</b>	cabinet rack	2	0.40	0.001
<b>19920</b>	cover	2	0.14	0.001



Please find our range of slides and products for staining in Chapter 5.  
**Microscopy and Staining.**



### Economical storage box

This box, complete with a lid, is specially designed for the storage of histology cassettes.

Made of heavy-duty cardboard for long term storage.

Each box stores up to 250 cassettes or 160 embedding rings.

Dimensions: 455 x 235 x 50 mm.

code	description	case quantity	case weight	case volume
<b>DS 42</b>	waterproof cardboard	18	5.3	0.132



### Modular storage drawers

Made of high impact polystyrene, this set consists of 6 stackable drawers (7 slots per drawer) providing permanent storage and identification of up to 165 embedding rings or 250 cassettes per drawer. (total capacity: 1,500 cassettes).

Dimensions: 400 x 230 x 340 mm.

Front: black colour. Sides: grey.

code	description	case quantity	case weight	case volume
<b>DS 40</b>	set of 6 drawers	1	5.90	0.030

## Laboratory storage cabinet

Designed especially for the storage of microscope slides, photo slides, histology cassettes and embedding rings.  
 Universal models interchangeable with other cabinets on the market. All parts of the cabinet are stackable.  
 Manufactured from enameled metal. Colour grey.  
 You can make up your own composition from one or several of the following elements:

- modular photo slide drawers**
- modular cassette drawers**
- modular microscope slide drawers**

All modules are stackable.

### Modular top (1)

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS 61</b>	50	480	480	2	0.056

### Modular photo slide drawers (2)

Cabinet consisting of 7 independent drawers to hold a total of 1,700 transparencies of 50 x 60 mm.  
 Dimensions of a drawer: 58 x 475 mm.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS 12</b>	120	480	480	10.5	0.056

### Modular cassette drawers (3)

Cabinet consisting of 6 double drawers laid on 3 levels.  
 Each drawer has 2 compartments.  
 The cabinet can hold approximately 1800 embedding rings.  
 Internal dimensions of each drawer: 68 x 475 mm.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS 35</b>	255	480	480	17	0.089

### Modular microscope slide drawers (4)

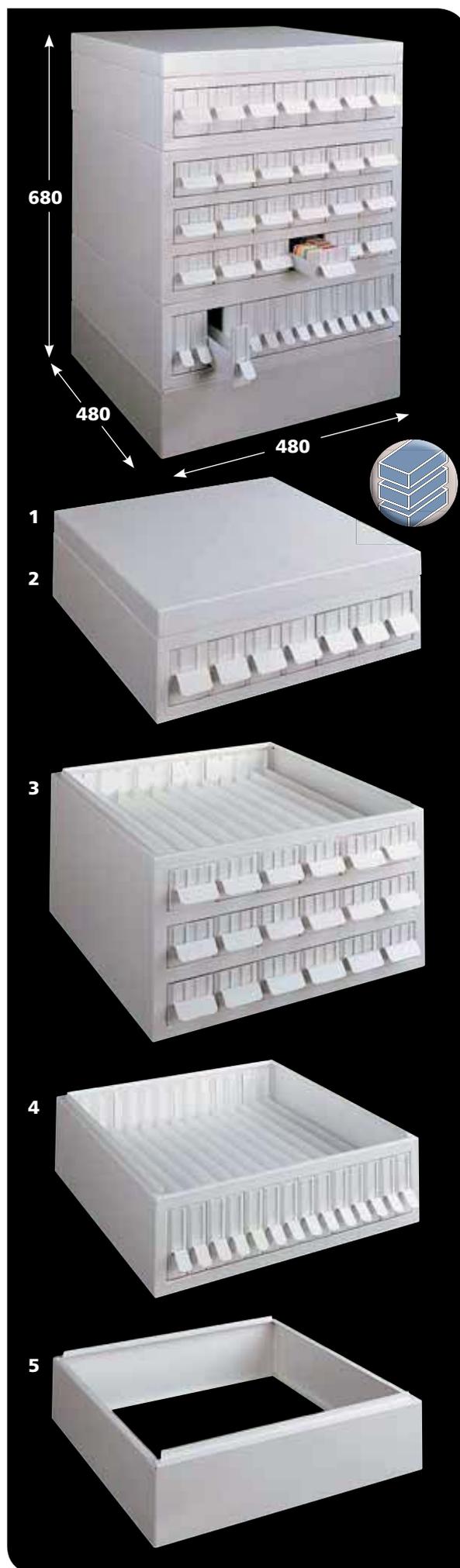
Consisting of 14 sliding drawers to hold a total of approximately 6,500 microscope slides of 26 x 76 mm.  
 Internal drawer dimensions: 27x475 mm.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS 11</b>	140	480	480	15	0.053

### Modular base (5)

To fit all modular cabinets and drawers.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS 62</b>	120	480	480	5	0.056









### STAR FROST® ADHESIVE slides

Standard size: 26 x 76 mm. Thickness: 1mm. Made in Germany. High definition, pre-washed glass. Hydrofophobic. No stain residues, no proteins in the surface, **DNase, RNase free**.

Feature a white, 20 mm marking area. This special printed area is resistant to all common chemicals used in the laboratories, and may be marked with pencil, ballpoint pen, marker and different laboratory-printers (e.g. Leica XPS). Thanks to the single side printing the user always knows the best surface to be used.

Star Frost® Adhesive slides are **treated with silane-coating**, which **ensures cell-and-tissue-adhesion and supports the forming of covalent bonds between the tissue and the glass** surface through electrostatic attraction. So tissue and cell substrates stick rapidly on the surface without using further adhesives or protein coating media, saving costs and time. This adhesive coating is restricted to the top surface and therefore to the usable area only. As the underside is untreated, the slides do not tend to stick when stacked or transported as with other competitive products.

StarFrost® Adhesive slides do not show striae and disturbing background staining such as the blue or red background obtained with Haematoxylin and Eosin-staining of tissues on Albumin coated glass, or the brown background obtained during the Immunoperoxidase or In-situ-DNS-Hybridisation process.

They are ideal for molecular-hybridization, as being DNase and RNase there is no need of washing them with chromic-acid.

**Available with ground edges 90° or beveled edges 45°.**

Supplied in boxes of 50 units.

Final package (20 boxes) by **tropical pack**.

Conforms with ISO 8037/1 (european standard).

Expiry date: 14 months after manufacturing date.

code	corners	case quantity	case weight	case volume
<b>A100018</b>	polished, 90°	20 x 50	4.98	0.003
<b>NEW A100019</b>	bevelled, 45°	20 x 50	4.98	0.003



### TROPICAL PACK:

Aluminium film designed to protect slides from humidity.



### STAR FROST® slides

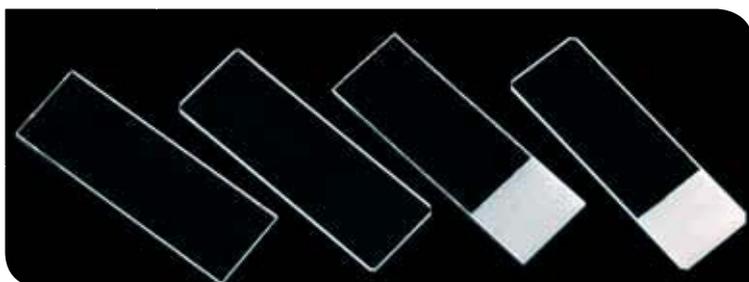
Standard size: 26 x 76 mm. Thickness: 1mm. Made in Germany of high definition, pre-washed glass. Hydrofophilic (epoxy). Feature a colour-coded, 20 mm **marking area**.

This special colour-printed area is resistant to all common chemicals used in the laboratories, and may be marked with pencil, ballpoint pen, marker and different laboratory-printers (e.g. Leica XPS). Thanks to the single side printing the user always knows the best surface to be used.

**Ground edges at 45° (angle)**. Supplied in boxes of 50 units. Final package (20 boxes) by tropical pack.

Expiry date: 14 months after manufacturing date.

code	strip colour	case quantity	case weight	case volume
<b>A100010</b>	white	20 x 50	4.98	0.003
<b>A100011</b>	green	20 x 50	4.98	0.003
<b>A100013</b>	blue	20 x 50	4.98	0.003
<b>A100014</b>	yellow	20 x 50	4.98	0.003



**EUROTUBO® slides**

Standard dimensions: 25.6 x 75.6 mm. (± 0,2) Clear, pre-washed glass, 1.05 mm (± 0,05) thick.

Ideal for routine analysis.

Displayed in cases of 50 units.

Each case is vacuum packed, in tropical pack, easy to open, with no need for scissors.

Each case includes a bag of silica salt.

Expiry date: 15 months after manufacturing date.

code	description	case quantity	case weight	case volume
D100001	edges 90°	50 x 50	12.70	0.010
D100002	edges 45°	50 x 50	12.70	0.010
D100003	edges 90° frosted end 20 mm	50 x 50	12.70	0.010
D100004	edges 45° frosted end 20 mm	50 x 50	12.70	0.010



**EUROTUBO® cover slides**

Specific use: protection of the sample and lens.

Clear, pre-washed glass. Thickness: No 1: 0.13 x 0.16 mm.

Supplied in cases of a hundred or two hundred units (depending on the code).

Each case includes a bag of silica salt, and is supplied vacuum in tropical pack. Easy opening, no need for scissors.

code	dimensions mm	case quantity	case weight	case volume
D101818	18 x 18	10 x 200	0.51	0.0009
D102020	20 x 20	10 x 200	0.58	0.0011
D102222	22 x 22	10 x 200	0.58	0.0011
D102240	22 x 40	10 x 100	0.48	0.0008
D102424	24 x 24	10 x 200	0.58	0.0014
D102432	24 x 32	10 x 100	0.46	0.0008
D102440	24 x 40	10 x 100	0.51	0.0008
D102450	24 x 50	10 x 100	0.62	0.0008
D102460	24 x 60	10 x 100	0.71	0.0008





### Microscope slide labels 23 x 23 mm

Write on these permanent adhesion labels and stick them onto microscope slides for better identification.  
White colour.

code	quantity	weight	volume
<b>901600</b>	1,000 labels	2.5	0.020



### Mounting medium for microscopy

VITROCLUD® quick-hardening mounting medium for microscope preparations. Neutral and colourless.  
Short hardening time (20 min). Refractive index at room temperature: 1.5. Resistant to heat, cold (down to  $-17^{\circ}\text{C}$ ), humidity and light including UV rays.  
It is recommended to close the container immediately after use.  
If the medium becomes too viscous, add Xylene.  
Supplied in aluminium bottles for a safer storage.  
Store at maximum  $20^{\circ}\text{C}$ .

code	description	case quantity	case weight	case volume
<b>A20100</b>	bottle 100 ml	1	0.20	0.001
<b>A20250</b>	bottle 250 ml	1	0.26	0.001
<b>A20500</b>	bottle 500 ml	1	0.60	0.001



### Staining tray

Made of ABS.

It will accept up to 20 slides on four plastic rails covered by a polymer strip to perfectly hold slides even if tray is held at an angle (see picture A).

When humidity is required, wells between rails may hold water, and raised rails will avoid water from touching the slides.  
It features a draining plug to ease the emptying of the tray (see picture B).

Four rubber feet ensure stability.  
Clear lid made of PETG (also available in black ABS, for fluorescence work; ask for delivery time).

Dimensions with cover: 38 x 24 x 4.5 cm.  
Cannot be used with acetone and chlorinated hydrocarbons.

Please ask our Sales Department for order details



## Stains

	code	description				case quantity	case weight	case volume
CE (IVD)	808000	Eosin, solution, May Grunwald, 250 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45 Transport norms: UN: 1992. ADR: 3/19b. IMDG: 3.2/II. IATA: 3/II. PAX: 305. CAO: 307				16	6.00	0.046
CE (IVD)	808001	Eosin, solution, May Grunwald, 1000 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45 Transport norms: UN: 1992. ADR: 3/19b. IMDG: 3.2/II. IATA: 3/II. PAX: 305. CAO: 307				12	13.00	0.046
CE (IVD)	808100	Eosin, solution modified Giemsa, 250 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45 Transport norms: UN: 1992. ADR: 3/19b. IMDG: 3.2/II. IATA: 3/II. PAX: 305. CAO: 307				16	6.00	0.046
CE (IVD)	808101	Eosin, solution modified Giemsa, 1000 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45 Transport norms: UN: 1992. ADR: 3/19b. IMDG: 3.2/II. IATA: 3/II. PAX: 305. CAO: 307				12	13.00	0.046
CE (IVD)	808200	Eosin, solution Wright, 250 ml bottle Danger symbols: R11-23/24/25-39/23/24/25. S 7-16-36/37-45 Transport norms: UN: 1992. ADR: 3/19b. IMDG: 3.2/II. IATA: 3/II. PAX: 305. CAO: 307				16	6.00	0.046
	805000	Gram differential staining, <b>Kit</b> containing 4 250 ml bottles*				12	24.00	0.046
	805001	Gram decolorizing, 250 ml bottle. Danger symbols: R-11-36-66-67. S 9-16-26 Transport norms: UN: 1993 ADR: 3/3b. IMDG: 3.2/II. IATA: 3/II PAX: 305. CAO: 307				16	6.00	0.046
	806030	Lugol Iodine, 250 ml bottle. Danger symbols: R52				16	6.00	0.046
	805040	Violet crystal solution (Gentian violet), 250 ml bottle Danger symbols: R-21/22-36/38. S 28a Transport norms: UN: 2810 ADR: 6/25c. IMDG: 6.1/III. IATA 6.1/III. PAX: 611. CAO: 608				16	6.00	0.046
	805140	Violet crystal solution (Gentian violet), 1000 ml bottle Danger symbols: R-21/22-36/38. S 28a Transport norms: UN: 2810 ADR: 6/25c. IMDG: 6.1/III. IATA 6.1/III. PAX: 611. CAO: 618				12	13.00	0.046
	805010	Ziehl differential staining, <b>Kit</b> containing 4 250 ml bottles**				12	24.00	0.046
	805011	Ziehl decolorizing, 250 ml bottle Danger symbols: R-11-36/37/38 S 7-16-26-45 Transport norms: UN: 2924 ADR: 3/26b. IMDG: 3.2/II. IATA: 3/II PAX: 305. CAO: 307				16	6.00	0.046
	805050	Safranin solution, 250 ml bottle				16	6.00	0.046
	805150	Safranin solution, 1000 ml bottle				12	13.00	0.046
	805120	Ziehl fuchsin solution, 1000 ml bottle Danger symbols: R10-21/22-36/38. S 36/37.				12	13.00	0.046
	805030	Methylene blue, 250 ml bottle				16	6.00	0.046
	805130	Methylene blue, 1,000 ml bottle				12	13.00	0.046
CE (IVD)	805013	fast stain for blood extensions, 250 ml containers, 2 containers A, 2 containers stain B				12	20.00	0.046

\* 1 lugol, 1 violet crystal, 1 Gram decolorizing, 1 safranin.

\*\* 1 fuchsin, 1 methylene blue, 2 Ziehl decolorizing.

Minimum order quantity: 1 bottle or kit.



### Staining jars with lid

Material: **autoclavable TPX**.

Two options available: vertical, "Hellendhall" type (Code **19335**) horizontal "Schifferdecker" type (Code **19351**).

code	description	case quantity	dimensions mm	case weight	case volume
<b>19335</b>	vertical, for 8 slides	20 x 50	58 x 53.5 x 86	0.20	0.001
<b>19351</b>	horizontal, for 10 slides	20 x 50	76 x 65 x 45	0.25	0.002



### Staining jar

Made of **POM** (polyoxymethylene).

Colour: black. Ideal for slide staining.

Good resistance to alcohols and xylol (not to phenol).

Consists of a jar with a lid for slide staining.

Leakproof. Includes a white perforated slide partition for drying.

Not suitable for microwaves.

code	dimensions mm	case quantity	case weight	case volume
<b>191101</b>	100 x 87 x 51	1	0.11	0.001



### Staining rack

Made of **POM** (polyoxymethylene). Colour: black. Ideal for slide staining.

Good resistance to alcohols and xylol (not to phenol). Accepts 25 slides.

Includes a folding handle, and 25 numbered slots to facilitate classification.

Slides insert easily in the rack. The rack ideally fits into the staining jar presented above.

No suitable for microwaves

code	dimensions mm	case quantity	case weight	case volume
<b>191100</b>	91 x 79 x 38	1	0.03	0.001



### Staining system

Slide staining system compound of a range of jars, and a 12 slides staining rack. Different jar colours allow the user to distinguish each stage of the staining process. Jar and rack made of **autoclavable** acetal polymer, resistant to staining agents as alcohol, xylene ... (not phenol).

The jar embodies a hinged lid which allows storing the jar with the content.

Reagent capacity: 80 ml. Jars can be loosely joined to each other laterally (picture 1).

The rack features a handle in the hinged lid, and can be placed up when handled out of the jar. Since the slides are placed vertically in the rack, their writing area will not be stained, allowing their removal without the use of forceps (picture 2).

Rack and jar withstand from **-170** and **+121°C**.

Jar dimensions: 64 x 76 x 92 mm.

Rack dimensions: 60 x 64 x 97 mm.



code	description	case quantity	case weight	case volume
191104	blue jar	6	0.68	0.0059
191105	green jar	6	0.68	0.0059
191106	white jar	6	0.68	0.0059
191107	yellow jar	6	0.68	0.0059
191108	dark grey rack	6	0.32	0.0024

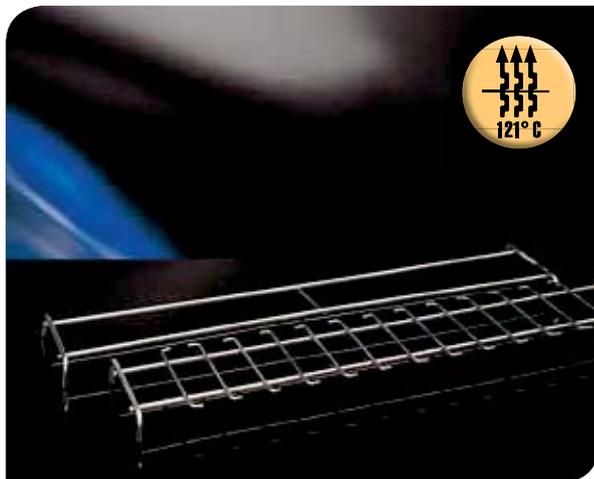
### Staining jar and dish

Dish made of polypropylene and jar made of **autoclavable TPX**. The jar is supplied with two lids. The first lid provides evaporation free storage of staining liquid when the dish is not in use. The second includes a slot to allow staining dish insertion.

Code **19353**: height (with lid) 70 mm, height (without lid) 65 mm, length 100 mm and width 75 mm.

Code **19354**: height 21 mm, length 83 mm, width 70 mm and length (handle) 160 mm.

code	description	case quantity	case weight	case volume
19353	jar with 2 lids	4	0.35	0.004
19354	staining dish for 20 slides	2	0.20	0.001



### Staining racks

Stainless steel.

Models **S-004** and **S-002** can be leaning over to drain off the stain without falling the slide.

code	description	quantity
<b>S-004</b>	for 12 slides length: 435, width: 85 mm	1
<b>S-002</b>	for 24 slides length: 435, width: 175 mm	1
<b>S-003</b>	without dividers length: 435, width: 85 mm	1

Handmade products. Other stainless steel models can be made on request.



### Staining jar and basket

Code **19360** is a stainless steel staining jar.

With a lid to avoid evaporation.

Made of stainless steel, this staining basket is designed for 30 slides of 26 x 76 mm for use in the above staining jar, code **19360**.

Includes an adjustable handle for more convenience.

code	description	dimensions mm	case quantity	case weight	case volume
<b>19360</b>	jar	115 x 88 x 77	1	0.60	0.001
<b>19361</b>	basket	110 x 85 x 55	1	0.13	0.001



### Special baskets and trays for slides

Baskets are manufactured from stainless steel wire. Cuvettes are made of neutral glass and feature stainless steel lids.

Models **CP-24**, **CP-30**, **CP-50** have folding handles.

code	description	dimensions mm	case quantity	case weight	case volume
<b>CP-30 H</b>	basket for 30 horizontal slides	172 x 86	1	0.150	0.0011
<b>CP-45 H</b>	basket for 45 horizontal slides	235 x 85	1	0.186	0.0015
<b>C-45</b>	glass tray with lid	253 x 93	1	0.400	0.0017
<b>CP-24</b>	basket for 24 vertical slides	70 x 70	1	0.095	0.0003
<b>CP-30</b>	basket for 30 vertical slides	70 x 90	1	0.110	0.0004
<b>CP-50</b>	basket for 50 vertical slides	70 x 132	1	0.140	0.0008



### Coplin type staining jar

Jar made of opaque white, unbreakable and **autoclavable** polypropylene, designed for staining 5 standard microscope slides. Rectangular container with rounded base and screw ribbed flat cap with an inner ring for preventing leakage.

Used as a storage system, it can hold up to 10 slides (2 per groove).

**Dimensions:** Base diameter: 60 mm.

Height of jar: 110 mm.

Height of jar with cap: 114 mm.

code	description	case quantity	case weight	case volume
<b>191087</b>	Coplin jar for 5 slides	12	0.68	0.003

## Slidefolder

Made of high impact polystyrene. It will hold up to twenty standard slides.

The case holding the slides horizontally offers numbered spaces for easy identification.

Will resist temperatures between  $-80^{\circ}\text{C}$  and  $+100^{\circ}\text{C}$ .

Not autoclavable.

The two transparent doors cover the slides and offer a full view of each slide without having to remove them.

Easy opening.

Stackable.

External dimensions: 192 x 292 x 11 mm.

code	slidefolder colour	case quantity	case weight	case volume
<b>989945</b>	blue	10	3.63	0.013

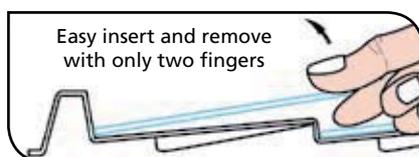


## Slide tray

Made of high impact polystyrene. It will hold up to twenty standard slides. The slide tray is easily stackable and will take minimum space on any shelf or laboratory counter.

External dimensions: 206 x 299 x 18 mm. Not autoclavable.

code	slidefolder colour	case quantity	case weight	case volume
<b>989956</b>	white	10	0.91	0.013



**SEE OUR SLIDES ON PAGES 98-99**

## Slide trays

Material: polystyrene.

Stackable.

code	description	dimensions mm	case quantity	case weight	case volume
<b>989910</b>	slide tray for 10 slides	95x330x50	40	2.30	0.015
<b>989920</b>	slide tray for 20 slides	195x330x50	20	2.30	0.015





### Slide mailer

Made of polypropylene.  
Designed for slide transport and protection.  
Compartment shape ensures tight fit: no risk of damaging slides.  
Easy snap-lock, but not indicated for liquid samples.

mod.	code	slide capacity	dimensions mm	case quantity	case weight	case volume
1	<b>19923</b>	1	80 x 40 x 6	50	0.40	0.009
2	<b>900025</b>	2	87 x 47 x 16	100	1.40	0.009
3	<b>979930</b>	2	84 x 71 x 6	250	3.50	0.040
4	<b>19924</b>	3	84 x 99 x 6	10	0.28	0.001
5	<b>900028</b>	5	82 x 17 x 29	100	1.28	0.012



### Slide tube mailer

Multipurpose container for mailing, staining or storing microscope slides. Tube made of polypropylene, pink screw cap made of high density polyethylene.

It holds up to 4 standard slides vertically.

It incorporates a tamper evident leakproof screw cap ensuring your peace of mind during transport or storage situations where someone might have manipulated your slides without your prior knowledge. Can also be used without the tamperproof locking mechanism. For color coding purposes, use an insert (range **409111A**, see Chapter 7. Tubes and microtubes) that may be inserted on top of closure.

The container is designed for maximum stability on a bench top while having an internal volume of only 12 ml.

Being transparent helps the user to notice if there are slides in it, an advantage in front of the popular white transport tubes.

**Dimensions:** 35 x 87 mm.

code	description	case quantity	case weight	case volume
<b>19926</b>	tamper evident tube	100	2.00	0.020



### Slide storage boxes

Manufactured in ABS, beige or blue colour. Economical boxes to store or transport 25, 50 or 100 slides.

Safe closing and easy opening.

They include numbered sheets with a labeling space in the bottom of the case and in the inner side of the cover (excepting model 1, which does not include the one in the inner side of the cover).

Models 2 and 3 have a special modeling assuring a good stability when stacked.

mod.	code	slide capacity	dimensions mm	case quantity	case weight	case volume
1	<b>19276.B</b>	beige slide box for 25 slides	93 x 87 x 32	200	10.60	0.07
	<b>19276.A</b>	blue slide box for 25 slides	93 x 87 x 32	200	10.60	0.07
2	<b>19277.B</b>	beige slide box for 50 slides	200 x 89 x 32	100	12.50	0.07
	<b>19277.A</b>	blue slide box for 50 slides	200 x 89 x 32	100	12.50	0.07
3	<b>19278.B</b>	beige slide box for 100 slides	200 x 170 x 32	50	12.26	0.07
	<b>19278.A</b>	blue slide box for 100 slides	200 x 170 x 32	50	12.26	0.07

Minimum order quantity: 5 slide boxes.

### Cylindrical slide mailer

Polypropylene. Ideal for storing and transporting 5 to 10 slides in complete safety.

The deep threaded container provides a leakproof seal for transport.

code	description	case quantity	case weight	case volume
<b>19922</b>	for 10 slides	10	0.28	0.003





### Slide storage boxes

Manufactured in different colours of polystyrene. Capacity can be doubled if two slides are placed into the same cell. The internal cork lining prevents damage to stored slides. To ensure proper slide identification, each slot is numbered to correspond to the slide inventory sheet on the inside cover of the box. Stackable.

**Dimensions:** 208 x 162 x 32 (100 slides). This model feature has a safety closure.

code	description	case quantity	case weight	case volume
19278.2	red, for 100 slides	1	0.30	0.002
19278.3	white, for 100 slides	1	0.30	0.002



### Microscope slide boxes

Made of high impact polystyrene, those boxes are designed for slides. Each slot is numbered and can be cross-referenced with the corresponding index card supplied with each box. Boxes are virtually unbreakable. Stackable.

**Dimensions** mm: 98 x 83 x 38 (25 slides), 230 x 97 x 35 (50 slides), 230 x 180 x 35 (100 slides).

code	description	case quantity	case weight	case volume
19276	for 25 slides	4	0.38	0.002
19277	for 50 slides	1	0.24	0.002
19278	for 100 slides	1	0.32	0.002



### Slide boxes

Plain polyethylene slide box with clear polypropylene lid. Not numbered. Stackable.

**Dimensions** in mm: 105 x 88 x 32 (25 slides), 200 x 88 x 32 (50 slides)

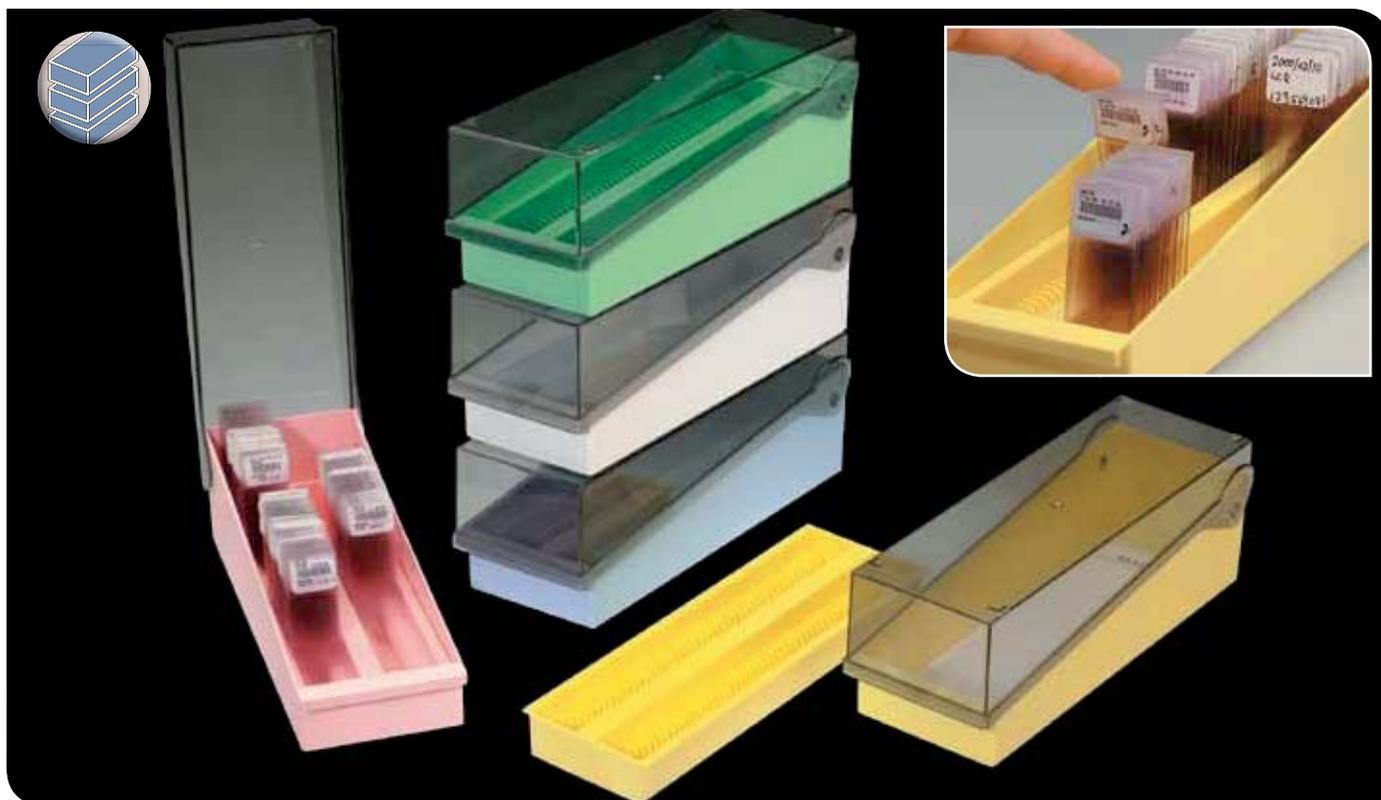
code	description	case quantity	case weight	case volume
19276.1	for 25 slides	48	3.56	0.019
19277.1	for 50 slides	24	3.40	0.017



### Automatic slide dispenser

Made of ABS and PS, this dispenser can hold up to 50 standard slides. Slides are dispensed individually by rotating the knurled knob on either side of the moulded base.

code	description	case quantity	case weight	case volume
19540	for 50 slides 26 x 76 mm	1	0.20	0.002



### Slide storage system for 100 slides. Stackable

Made of high impact polystyrene. It can hold up to 200 standard slides.

Compound by a box with a transparent lid with an easy opening and an internal removable rack.

This removable rack is divided into two parts with 50 numbered slots in each one, so 100 slides can be separately placed and their strips can be read. For space saving purposes, you can double the amount of slides simply by storing 2 slides per slot, so each part can hold up to 100 slides resulting in a total capacity of 200 slides.

They can also be used without the internal rack, so the capacity reaches 400 slides.

Stackable. The internal rack allows discarding all the slides at the same time.

The frontal part of the box can be written.

External dimensions: 82 x 245 x 86 mm.

code	colour	case quantity	case weight	case volume
19279.5	blue	10	3.3	0.023
19279.7	green	10	3.3	0.023
19279.3	yellow	10	3.3	0.023

See minimum and delivery time for other colors.

### Slide storage system for 50 slides. Stackable

Same characteristics as previous codes, it has half capacity. Each part of the inner rack can hold up to 25 separate slides with a total capacity of 50 slides, or for space saving purposes it has a total capacity of 100 slides by storing 2 slides in each slot.

External dimensions: 82 x 140 x 86 mm.

code	colour	case quantity	case weight	case volume
19274.5	blue	10	1.5	0.013
19274.7	green	10	1.5	0.013

Minimum order quantity: 1 storage system.

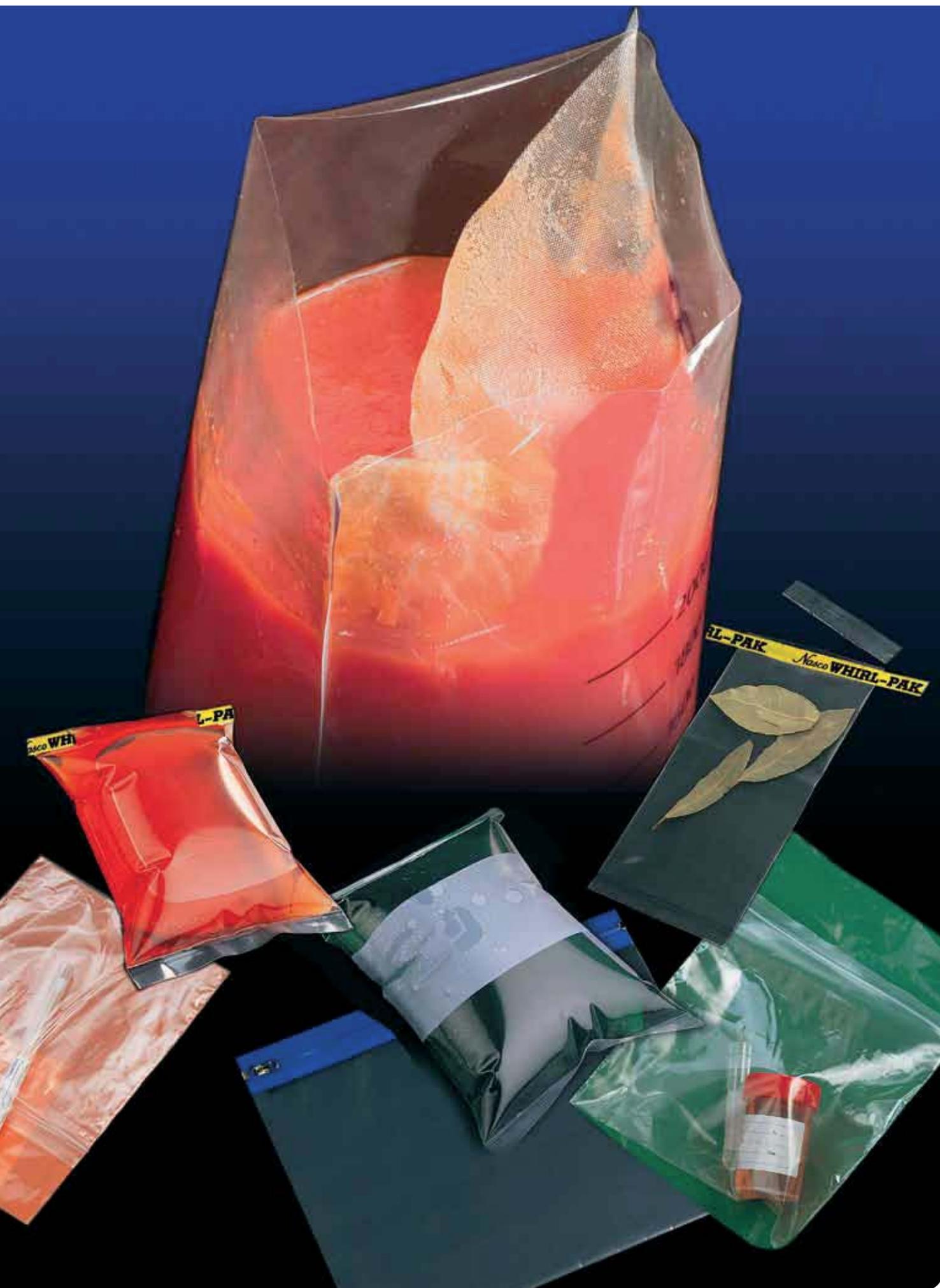
### Economical storage box

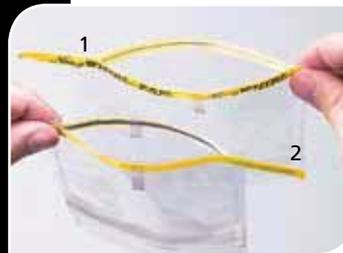
This box, complete with a lid, is specially designed for the storage of histology cassettes. Made of heavy-duty cardboard for long term storage. Each box stores up to 250 cassettes or 160 embedding rings. **Dimensions:** 455 x 235 x 50 mm.

code	description	case quantity	case weight	case volume
DS 42	waterproof cardboard	18	5.3	0.132









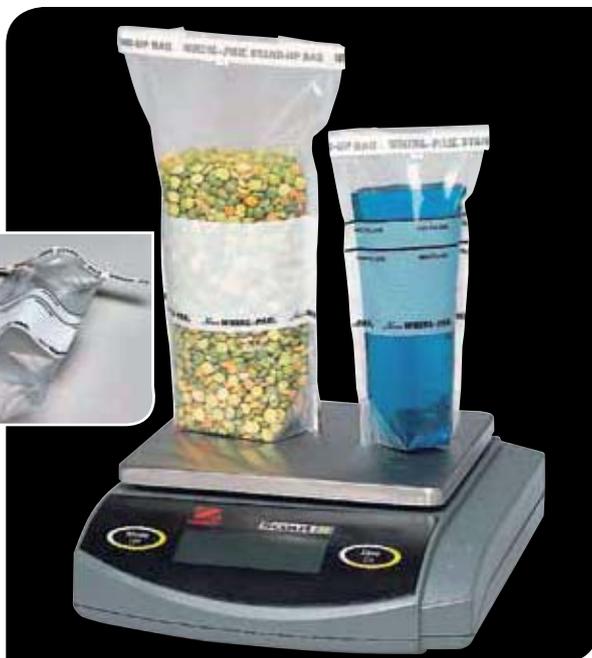
1. rounded wire
2. flat thicker wire

### Whirl-Pak bags with flat wires

Same features as those from the following page but with a flat thicker wire instead of rounded wire resulting in a safer closure, which is preferred in some markets.

With white write-on strip.  
Steriles by ethylene oxide.

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
200356	540	11.5 x 23	64	500	2.04	0.0073



### Whirl-Pak stand-up bags

Same characteristics as whirl-pak standard bags. However, they have a flat bottom which permits them to remain stand up when the sample is inside the bag.

This allows to have both hands free when working so you can add or to extract the content comfortably.

No need of any rack.

Working as a beaker or bottle, when they are empty they take up much less space.

They have a write-on white strip.

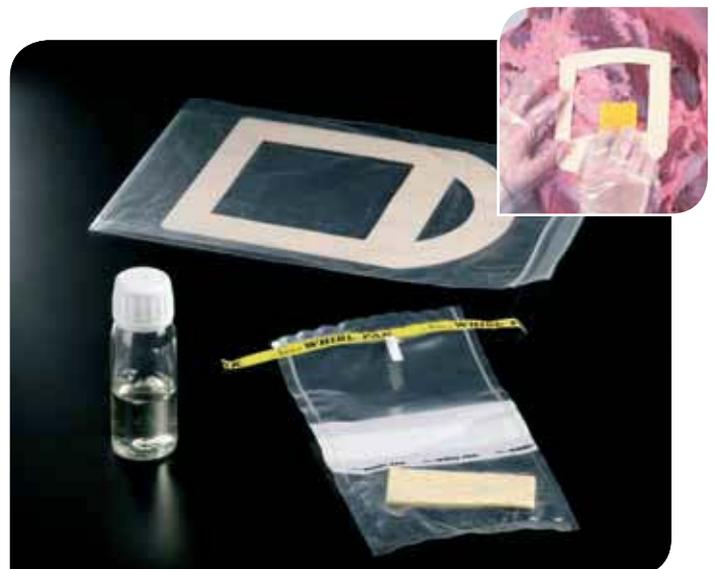
Ethylene oxide sterilized.

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
200361	540	11.5 x 23	64	500	2.50	0.0073
<b>NEW</b> 200365	2,070	19 x 38	102	250	4.31	0.046

### Sampling kits: meat or surfaces

Kits designed according ISO standards. Available with sponge or swabs.

See more information in Chapter 1. Microbiology.





1. Tear off top of bag along perforation.
2. Use pull tabs to open bag.
3. Place sample in bag.
- 4a. Hold bag by wire ends and whirl three times to close.
- 4b. Or, fold the tab over tightly three times to close (used to close larger bags).
5. Bend wire ends onto bag.

### Sterile Whirl-Pak sample bags

Made of a low density polyethylene blend, resulting in a very resistant and transparent bags.

Suitable for both solid and liquid samples. The plastic thickness depends on the model (57 to 102  $\mu$ ).

This special polyethylene blend makes unnecessary a higher thickness to achieve higher resistance.

**Leakproof** closure by several metallic rounded sticks when you turn closure bands three times (see scheme).

The Whirl-Pack bags are the unique bags with a one-piece seam, avoiding the possible risks of the loss of the corners bags.

Ethylene oxide sterilized.

Suitable for food industry.

#### Without strips

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
200325	60	7.5 x 12.5	57	500	0.91	0.0048
200340	120	7.5 x 18.5	57	500	1.14	0.0062
200341	210	9.5 x 18	76	500	1.70	0.0062
200342	390	13 x 19	76	500	2.50	0.0195
200329	540	11.5 x 23	64	500	1.66	0.0073
200332	720	15 x 23	76	500	2.94	0.017
200343	720	15 x 23	102	500	2.94	0.017
200344	810	12.5 x 30	76	500	3.63	0.0195
200345	1,080	12.5 x 38	76	500	4.20	0.0195
200346	1,260	15 x 38	76	500	4.99	0.0195
200347	2,070	19 x 38	76	500	9.50	0.0203

#### White strips bags

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
200326	60	7.5 x 12.5	57	500	0.91	0.0048
200349	120	7.5 x 18.5	57	500	1.14	0.0062
200364	390	13 x 19	64	500	2.02	0.017 <b>NEW</b>
200330	540	11.5 x 23	64	500	1.93	0.0073
200333	720	15 x 23	76	500	3.29	0.0195
200351	1,650	19 x 30	102	500	6.13	0.0203
200363	2,070	19 x 38	76	500	5.54	0.019 <b>NEW</b>
200357	2,700	25.4 x 38	102	250	5.32	0.023 <b>NEW</b>
200358	3,600	25.4 x 50.8	102	250	6.46	0.023 <b>NEW</b>
200359	5,400	38 x 50.8	102	100	4.68	0.023 <b>NEW</b>

The bags capacity is the one achieved with the closing achieved following the instructions described above and the volumes are only approximated.

Do not use temperatures up to 82 °C. Non autoclavable.



See Whirl-pak blender bags in Chapter 1. Microbiology





### Zip-lock bags

Made of transparent polyethylene, very resistant to shocks and tearing. For all solid samples.

Suitable for laboratories (for tubes, swabs...) as well as industries (to contain, spare pieces, small electronic components, buttons, sweets...).

code	thickness mm	dimensions mm	quantity
<b>M 5555</b>	0.05	55 x 55	2,000
<b>M 6080</b>	0.05	60 x 80	1,000
<b>M 70100</b>	0.05	70 x 100	2,000
<b>M 80120</b>	0.05	80 x 120	2,000
<b>M 80160</b>	0.05	80 x 160	2,000
<b>M 100150</b>	0.05	100 x 150	2,000
<b>M 110110</b>	0.05	110 x 110	2,000
<b>M 120180</b>	0.05	120 x 180	2,000
<b>M 150220</b>	0.05	150 x 220	2,000
<b>M 180250</b>	0.05	180 x 250	2,000
<b>M 200300</b>	0.05	200 x 300	2,000
<b>M 250330</b>	0.05	250 x 330	2,000
<b>M 300400</b>	0.05	300 x 400	2,000



### White strip zip-lock bags

Same features as the above products. Feature white strips for writing for better sample identification.

code	thickness mm	dimensions mm	quantity
<b>M 5555B</b>	0.05	55 x 55	2,000
<b>M 6080B</b>	0.05	60 x 80	1,000
<b>NEW M 80120B</b>	0.05	80 x 120	1,000
<b>M 70110B</b>	0.05	70 x 110	1,000
<b>M 100150B</b>	0.05	100 x 150	1,000
<b>M 120180B</b>	0.05	120 x 180	1,000
<b>M 160220B</b>	0.05	160 x 220	1,000
<b>NEW M 180250B</b>	0.05	180 x 250	1,000
<b>NEW M 200300B</b>	0.05	200 x 300	1,000



We manufacture racks for handling and transport of bags.  
See **Chapter 10. Sample storage and Cryogenics.**

### Multifunction bag

Manufactured in polyethylene (125 microns). Useful for transporting different kind of samples and documents. It has a zip closure and a blue strip in the top.

It can be used as many times as necessary. Long-lasting use.

code	dimensions mm	case quantity	case weight	case volume
<b>200338</b>	250 x 195	100	2.00	0.007

## Leakproof bags for sample storage

Designed for the storage and transport of solid and liquid samples. Withstand most acids. Include a double safety seal.

Made of Saranex, a film composed by five layers EVA-PEBD-Saran-PEBD-EVA.

Very resistant to shocks and tearing, thus eliminating the use of two bags.

Gamma sterilizable.

code	dimensions cm	capacity ml	case quantity	case weight	case volume
200300	5 x 10	36	250	1.00	0.004
200301	8 x 15	158	250	1.30	0.004
200302	15 x 15	540	250	1.50	0.006
200303	18 x 20	1,121	250	2.00	0.008
200304	23 x 30	3,295	250	3.40	0.015
200305	30 x 30	4,893	250	4.40	0.015



## Specimen transport kangaroo bags

For tube transport. Double pouch design: one for specimen tubes and the other for documents. Includes a safety seal.

Reclosable (zip-lock design). Dimensions: 16 x 16.5 cm.

Made of polyethylene.

code	couleur	case quantity	case weight	case volume
V 160230	green	2 x 1.000	13,8	0,03
N 160230	orange	2 x 1.000	13,8	0,03



See blender bags in Chapter 1. Microbiology



## Whirl-Pak specimen transport kangaroo bag

Non-sterile bag made of a low density polyethylene blend, resulting in a **very resistant and transparent bag**.

Designed for both solid and liquid samples.

**Leakproof closure** with several metallic rounded sticks.

**Double pouch design:** one for specimen tubes and the other one for documents.

It features the biohazard symbol.

Bag with a **one-piece seam**, avoiding the possible risks of the loss of the corners bags.

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
200372	720	15 x 23	64	500	3.41	0.0170



### Autoclave resistant bags

Printed with the biohazard symbol and instructions of use.

Two versions available:

- Transparent and translucent, suitable for routine autoclaving.
- Red color, suitable for autoclaving at 138°C; they feature a sterilization indicator.

See more information in Chapter 11. Safety.



### Exam gloves

CE (EPI) CE (MDD)

Wide range of single use gloves **AQL 1.5**.

Different options available:

- Powdered and non powdered latex.
- Powdered and non powdered vinyl.
- Non powdered nitrile..

See more information in Chapter 11. Safety.



### Swabs for microbiological sampling

CE (MDD)

Sterile swabs with or without transport media.

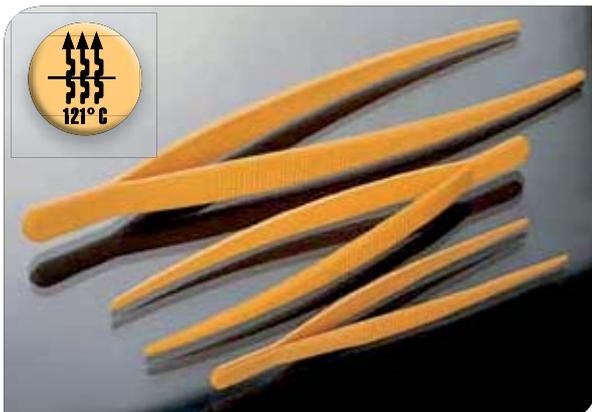
Tips made of viscose, cotton, dacron®,...

Supplied in tube, peel pack, flow pack,...

Transport media available:

- Amies with and without charcoal
- Stuart
- Cary Blair
- Virus
- Chlamydia

See more information in Chapter 1. Microbiology.



### Forceps

Made of P.O.M.

Colour: orange.

Self-sprung forceps with rounded ends.

Code **19503**, the inner part of the tip is ribbed to enhance sampling.

Ribbed for a better handling.

**Autoclavable.** Flexible.

code	length mm	case quantity	case weight	case volume
<b>19500</b>	115	5	0.02	0.0010
<b>19501</b>	145	5	0.06	0.0010
<b>19503</b>	250	5	0.08	0.0010

**Cytology brush**

CE (MDD)

Blue ABS shaft. For cervical specimen collection, designed for taking cell samples without damaging them.

Includes a soft tip to provide more comfort for patients.

Total length: 19.5 cm.

Sterile model is sterilised by ethylene oxide and includes instructions.

code	description	case quantity	case weight	case volume
440150	non sterile	50 x 50	4.55	0.010
440151	<b>STERILE</b> individual peel-pack	2 x 500	3.90	0.029

**Vaginal speculum**

CE (MDD)

Made of transparent polystyrene. They feature a fixation device made of polyamide, which allows the user to safely position the angle. Anatomically designed, with rounded edges for improved comfort. Ergonomically designed for single-handed use. Smooth and easy to manipulate. Individually wrapped. Aseptic. Available in three sizes identified by the color of the fixation device.

code	shaft width	colour	case quantity	case weight	case volume
440154	24 mm	green	100	4.40	0.063
440155	27 mm	blue	100	4.40	0.063
440156	30 mm	white	100	4.40	0.063

**AYRE wood spatula**

CE (MDD)

Rounded edges.

Sterile model is sterilised by ethylene oxide and includes instructions.

code	description	case quantity	case weight	case volume
440142.0	non sterile	50 x 100	10.55	0.025
444150	<b>STERILE</b> individual peel-pack	2 x 500	5.10	0.029

**AYRE plastic spatula**

CE (MDD)

Made of autoclavable polypropylene.

Rounded edges.

Sterile model is sterilised by ethylene oxide and include instructions.

code	description	case quantity	case weight	case volume
440142	non sterile	5 x 500	7.0	0.025
444142	<b>STERILE</b> individual peel-pack	2 x 500	4.6	0.029
444242	<b>STERILE</b> individual flow-pack	2 x 500	4.9	0.029

Minimum ordering quantity: 500





### Blisters for transport of diagnostic samples

Blisters made of polypropylene, designed as a system to protect samples contained in swabs, tubes or flasks, during transport. Perfect as a primary package, they can be used several times. Supplied flat and stacked.

mod.	code	capacity	case quantity	case weight	case volume
1	<b>120100</b>	for 1 tube 10 ml	250	4.60	0.06
2	<b>120101</b>	for 2 tubes 10 ml	500	10.80	0.11
3	<b>120102</b>	for 6 tubes 5 ml / 3 tubes 10 ml	250	7.40	0.09
4	<b>120103</b>	for 1 container 50 ml	250	7.00	0.06
5	<b>120104</b>	for 1 swab	250	6.00	0.07
6	<b>120105</b>	for 7 swabs	200	8.00	0.15

To meet the requirements of packaging instruction P650 a piece of absorbent paper (See **Chapter. 11. Safety**) should be included inside the secondary container (blister) to prevent from any leakage.

See blood collection tubes on Chapter 3. Haematology and Biochemistry.



### Mailing container

Mailing container with safety screw blue cap, both manufactured in polyethylene. Leak proof.

Dimensions uncapped 128 x 30 mm. Ideal for 10 ml tubes. The tube includes a piece of absorbent paper to prevent from any leakage. Container and cap are sold separately.

code	description	case quantity	case weight	case volume
<b>401301</b>	mailing container	500	7.70	0.08
<b>401302</b>	screw cap	500	2.00	0.03



### Isothermal bags

Isothermal bags for the transport of biological samples, manufactured from PVC, PE and polyurethane (foam). The isothermal bags have two functions: keeping the temperature of samples for 6 hours while being transported, whatever the climatic conditions; protecting the samples and their contents. Available in green.

**Description:** for added security, isothermal bags feature three different locks: by velcro (excepting 6 l model), by zip fastener and by a coded padlock.

Bags include the following elements:

- an inner pocket designed to hold the cold packs,
  - a transparent outer pocket, at the front of the bag, for laboratory identification,
  - a transparent pocket, over the top of the bag, to insert documents.
  - Two cold packs (except 900073 which incorporates only 1) consisting of HDPE packs filled with a non toxic gel.
- Before use, place cold packs in the freezer and keep at 20°C/-24°C for 24 hours.

#### Quality features:

- Bags manufactured from sturdy and shockproof materials.
- Stand out from other isothermal bags existing on the market for their lightness and convenience.
- Offer a total security seal thanks to padlock.
- Space-saving and supplied folded in to reduce volume by 50 %.
- To clean, simply use standard detergents.
- Corners are rounded and reinforced by a double seam.
- Handles are sewn all around the bag for increased strength.
- Isothermal bags are traditionally manufactured (non-automated production), and each product undergoes rigid quality controls.

code	dimensions mm	capacity	case quantity	case weight	case volume
900073	230x230x170	6	1	0.92	0.009
900074	220x220x260	10	1	1.20	0.013
900076	390x250x280	27	1	1.40	0.027
900078	450x300x300	40	1	1.54	0.041

### Slide mailers

Designed for slide transport and mailing.

Different models (tube, case,...) for one, two, three, four or even ten slides.

See more information in Chapter 5. Microscopy and Staining.



### Containers for sampling

Polystyrene or polypropylene containers.  
Volumes from 30 ml to 1,000 ml.

See more information in Chapter 8. Containers.





### Bottles for water sampling

Sterile bottles, designed according to ISO standards for sampling of consumption water.

Available with thiosulfate (microbiological analysis) and without thiosulfate (physico-chemical analysis).

Bottles are available in polyethylene or PET.  
Capacities vary from 500 to 1,500 ml.

Special configurations:

- personalized labels,
- individually bagged bottles,
- special dosifications of thiosulfate,
- other bottles or jars from the catalogue,...

See more information in Chapter 1. Microbiology.



### Water control: absence/presence of Coliforms

125 ml bottle containing culture media, which detects the presence of coliforms in consumption waters (human consumption, industrial, leisure). 24 hours are enough to detect the presence or absence of non enteric bacteria, coliforms, or Escherichia Coli.

Easy detection through color change.

See more information in Chapter 1. Microbiology.



### Long-handled dippers

Polypropylene cup and polyethylene handle.

For convenient sampling from tanks, vats, streams, ponds, lakes...  
The polypropylene cups have threaded fittings that screw onto the handle.

Two pouring spouts on the 500 ml dipper make it useful for left or right handed people to pour from either side.

The end of the handle has a hook for hanging.

**Autoclavable** container (up to 121°C).

code	description	quantity	weight	volume
19575	91 cm handle, 500 ml container	1	0.30	0.001
19576	183 cm handle, 500 ml container	1	0.55	0.002
19577	container 500 ml (fits both handles)	1	0.30	0.005

Please ask for other lengths





### Squared containers, graduated up to 2.7 litres

CE (IVD)

High density polyethylene container and cap. Ideal for 24 hour urine collection and other liquid samples. The ribbed cap features a pharmaceutical grade joint, which eliminates the need for an insert plug, allows a better handling and provides a watertight seal.

Containers are graduated in 50 ml increments up to 2.7 l.

Ergonomically designed for single-handed use. Stackable.

A ring on the neck of the containers avoids dripping when pouring.

Base: 115 x 115 mm

Height, cap excluded: 249 mm.

Individually wrapped models are supplied capped.

Cases per pallet: 12.

code	body colour	cap description	presentation	individually wrapped	sterile	internal mouth Ø mm	case quantity	case weight	case volume
407005	natural	white, with joint	unscrewed	no	no	65	34	5.70	0.152
407005/T	natural	white, with joint	screwed	no	no	65	34	5.70	0.152
407005.0	natural	white, with joint	screwed	yes	RADIATION	65	34	5.70	0.152
407005.1	natural	white, with joint	screwed	yes	no	65	34	5.70	0.152
407006	brown	white, with joint	unscrewed	no	no	65	34	5.70	0.152
407006/T	brown	white, with joint	screwed	no	no	65	34	5.70	0.152

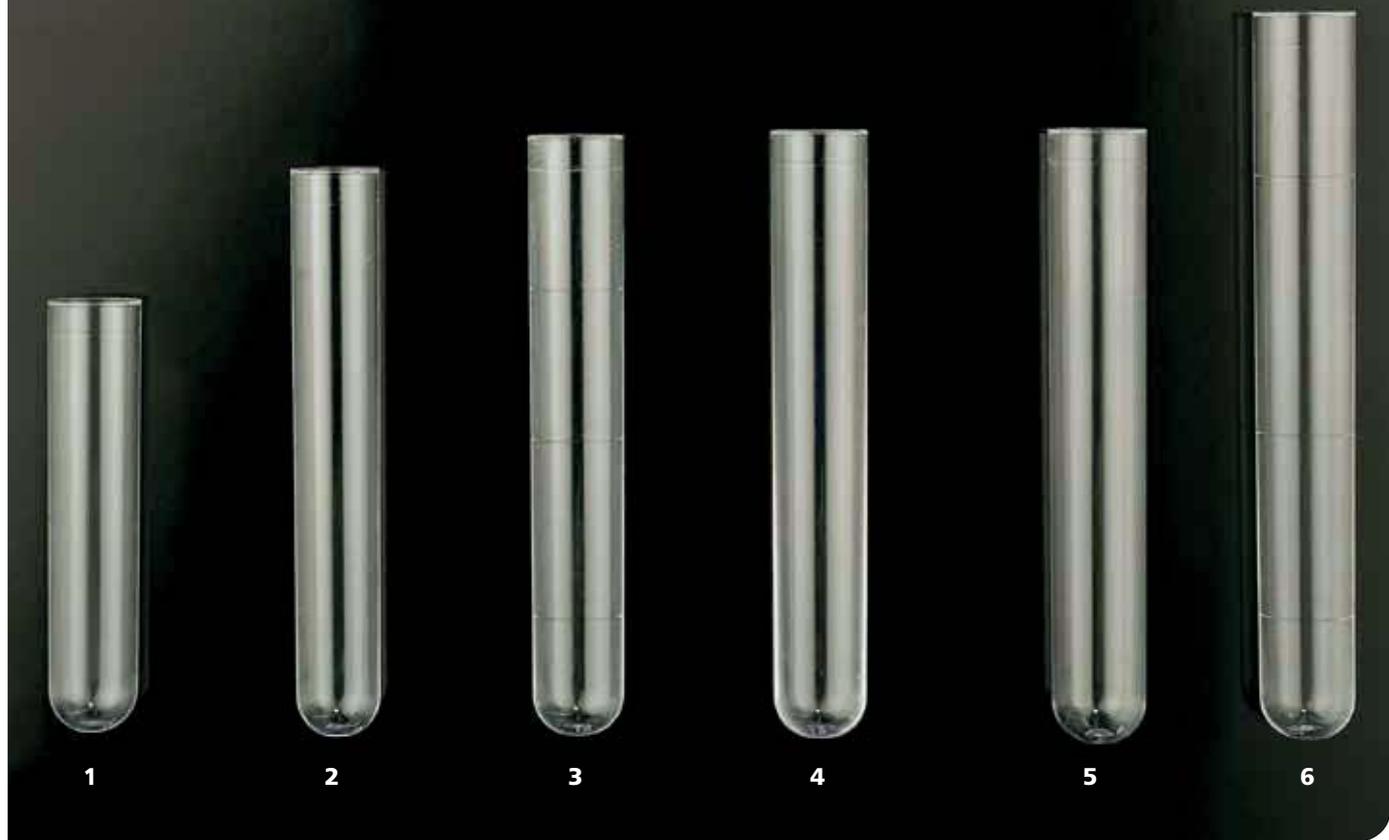
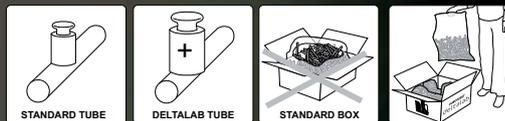


See more information in Chapter 8.  
Sample Containers.









### Round bottom polystyrene tubes

CE (IVD)

Manufactured from high technology, new generation moulds to ensure the reproducibility of each tube. Tubes are made in one piece to ensure uniformity and dimensional accuracy from tube to tube.

mod.	code	dimensions mm	volume ml	case quantity	case weight	case volume	cases per pallet
1	<b>300500</b>	11 x 55	3	2 x 2,000	7.50	0.046	40
2	<b>300300</b>	11 x 70	4	3 x 1,000	6.20	0.046	40
3	<b>300800</b>	12 x 75	5	4 x 1,000	9.30	0.075	24
4	<b>300800.2</b>	12 x 75 thick wall	5	4 x 1,000	10.70	0.075	24
5	<b>300800.1</b>	12 x 75	5	4 x 1,000	9.60	0.075	24
6	<b>300400</b>	12 x 88	6	4 x 1,000	11.30	0.082	24

Codes **300800** and **300400** have graduation rings. Code **300800** (mod. 3) is graduated at 1, 2.5 and 4.0 ml; code **300400** (mod. 6) is graduated at 1, 2.5 and 5.0 ml.

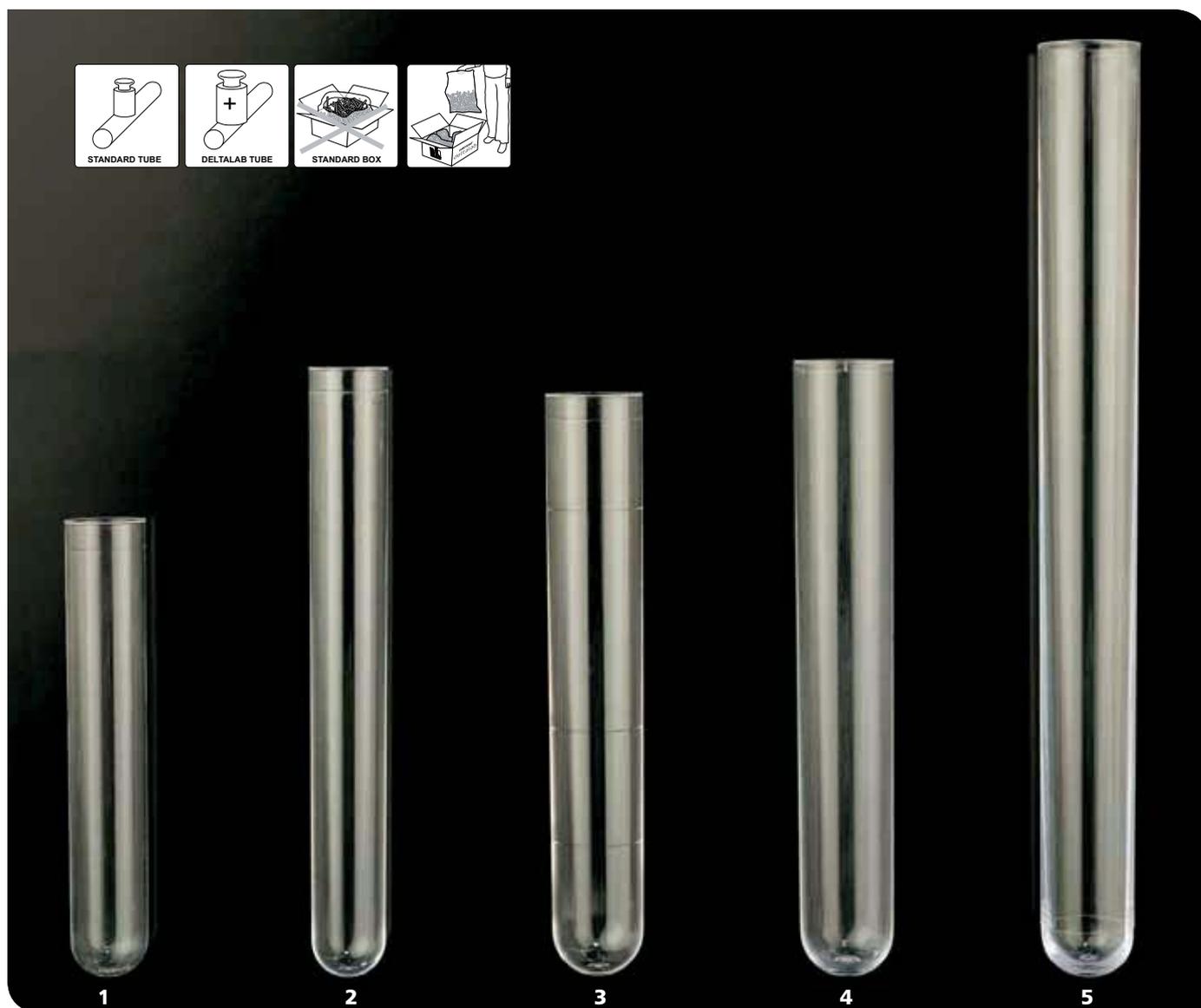
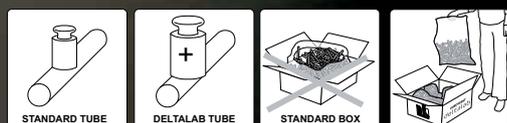
#### Suitable for centrifugation up to 7,500 g.

A complete range of test tube caps is detailed on page 129 of this catalogue.

All tubes are suitable for laboratory use.

#### Dimensions ( $\pm 0,09$ )

code	internal diameter mm	external diameter mm	total length mm	maximum volume ml
<b>300500</b>	10	11.5	54.4	3.5
<b>300300</b>	9.1	10.8	69.4	4.0
<b>300800</b>	10.3	11.8	74.5	5.5
<b>300800.1</b>	10.2	11.8	74.5	5.5
<b>300800.2</b>	10	11.8	74.5	5.3
<b>300400</b>	10.4	12	87.6	5.9



### Round bottom polystyrene tubes

CE (IVD)

Manufactured from high technology, new generation moulds to ensure the reproducibility of each tube. Tubes are made in one piece to ensure uniformity and dimensional accuracy from tube to tube.

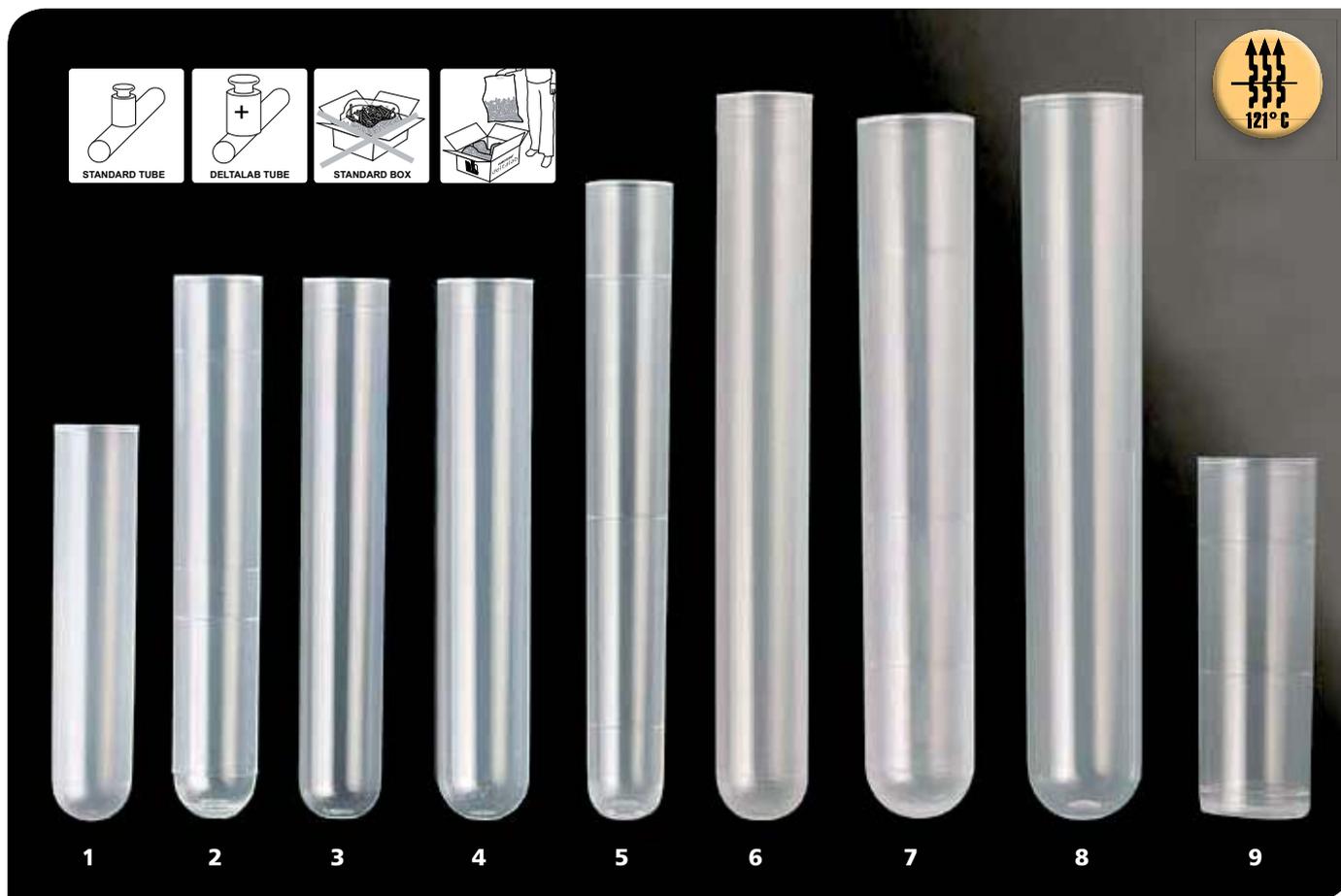
mod.	code	dimensions mm	volume ml	case quantity	case weight	case volume	cases per pallet
1	<b>300700</b>	13 x 75	5	4 x 1,000	12.50	0.082	24
2	<b>301700</b>	13 x 100	7	6 x 500	11.60	0.082	24
3	<b>300900</b>	16 x 95	10	5 x 500	12.00	0.096	20
4	<b>300705</b>	16 x 100	10	5 x 500	14.80	0.110	20
5	<b>300100</b>	16 x 150	17	1,000	11.15	0.093	20

Code **300900** (mod. 3) has graduation rings at 2.5, 5 and 10 ml.

### Dimensions ( $\pm 0,09$ )

code	internal diameter mm	external diameter mm	total length mm	maximum volume ml
<b>300700</b>	10.9	12.9	74.7	6.7
<b>301700</b>	11.0	12.9	99.6	8.3
<b>300900</b>	13.8	15.8	94.6	12.2
<b>300705</b>	13.8	16.0	99.8	13.2
<b>300100</b>	14.6	16.3	151.0	21.1

**Suitable for centrifugation up to 7,500 g.** (excepting code **300100**, which does not withstand centrifugation). A complete range of test tube caps is detailed on page 129 of this catalogue. All tubes are suitable for laboratory use.



### Ultra clear polypropylene tubes

CE (IVD)

Manufactured from high technology, new generation moulds to ensure the reproducibility of each tube. Tubes are made in one piece to ensure uniformity and dimensional accuracy from tube to tube.

**Autoclavable** up to 121 °C.

mod.	code	dimensions mm	volume ml	case quantity	case weight	case volume	cases per pallet
1	<b>400500</b>	11 x 55	3	2 x 2,000	6.50	0.046	40
2	<b>400800</b>	12 x 75	5	4 x 1,000	8.00	0.075	24
3	<b>400800.1</b>	12 x 75	5	4 x 1,000	8.00	0.075	24
4	<b>400700</b>	13 x 75	5	4 x 1,000	9.70	0.082	24
5	<b>400400</b>	12 x 88	6	4 x 1,000	9.60	0.082	24
6	<b>401700</b>	13 x 100	7	6 x 500	9.40	0.082	24
7	<b>400900</b>	16 x 95	10	5 x 500	10.10	0.096	20
8	<b>400705</b>	16 x 100	10	5 x 500	12.20	0.096	20
9	<b>401100</b>	15 x 50	5	5 x 1,000	10.40	0.082	24

Certain codes have graduation rings: **400800** (mod. 2): graduated at 1, 2.5 and 4.0 ml; code **400400** (mod. 5): graduated at 1, 2.5 and 5.0 ml; **400900** (mod. 7): graduated at 2.5, 5 and 10 ml; **401100** (mod. 9): graduated at 2.5 and 5 ml.

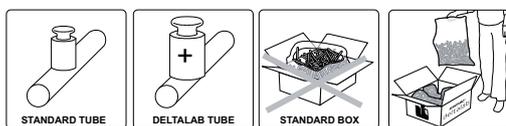
### Dimensions (±0,09)

code	internal diameter mm	external diameter mm	total length mm	maximum volume ml
<b>400500</b>	9.9	11.4	53.9	3.4
<b>400800</b>	10.3	11.7	73.9	5.3
<b>400800.1</b>	10.2	11.7	73.9	5.3
<b>400700</b>	10.9	12.7	73.7	6.4
<b>400400</b>	10.3	11.9	86.9	5.8
<b>401700</b>	11.0	12.7	98.4	8.1
<b>400900</b>	13.7	15.5	93.7	11.9
<b>400705</b>	13.7	15.8	98.6	12.7
<b>401100</b>	13.7	15.5	48.9	6.5

**Suitable for centrifugation up to 15,000 g.**

A complete range of test tube caps is detailed on page 129 of this catalogue.

All tubes are suitable for laboratory use.



## Polystyrene tubes capped

CE (IVD)

Suitable for centrifugation up to 7,500 g.

Components:

code	tube	page	cap	page
<b>300702</b>	<b>300700</b>	19	<b>307107</b>	23, 25
<b>300907</b>	<b>300705</b>	19	<b>308107</b>	23, 25

code	dimensions tube mm	height tube + cap mm	volume ml	case quantity	case weight	case volume	cases pallet
<b>300702</b>	13 x 75	83.4	5	2 x 1,000	7.5	0.046	48
<b>300907</b>	16 x 100	109.6	11	4 x 500	15.0	0.096	20



See Chapter 6.  
Sampling and Transport.

## Polystyrene tubes, capped and labelled

CE (IVD)

Suitable for centrifugation up to 7,500 g.

Dimensions of the label: 35 x 25 mm.

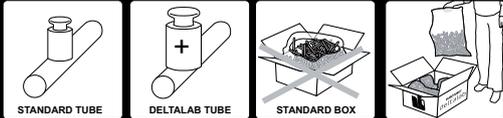
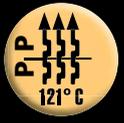
Components:

code	tube	page	cap	page
<b>300804</b>	<b>300800</b>	18	<b>305807</b>	23, 24
<b>300704</b>	<b>300700</b>	19	<b>307107</b>	23, 25
<b>300904</b>	<b>300900</b>	19	<b>308107</b>	23, 25
<b>300908</b>	<b>300705</b>	19	<b>308107</b>	23, 25

code	dimensions tube mm	height tube + cap mm	volume ml	case quantity	case weight	case volume	cases pallet
<b>300804</b>	12 x 75	82.9	5	2 x 1,000	7.3	0.046	48
<b>300704</b>	13 x 75	83.4	5	2 x 1,000	7.5	0.046	48
<b>300904</b>	16 x 95	105.0	10	2 x 500	7.1	0.046	48
<b>300908</b>	16 x 100	110.4	11	4 x 500	14.0	0.096	20



mod. 2, 6, 8



### Conical tubes

CE (IVD)

Manufactured in polypropylene (PP) and polystyrene (PS).

mod.	code	dimensions mm	material	volume ml	case quantity	case weight	case volume	cases per pallet
1	<b>301200</b>	16 x 102	PS	12	5 x 500	12.9	0.096	20
2	<b>401200</b>	16 x 102	PP	12	5 x 500	10.6	0.096	20
3	<b>301213</b>	17 x 105	PS	12	1,500	8.80	0.088	20
4	<b>301212</b>	17 x 105	PS	12	1,500	8.80	0.088	20
5	<b>301201</b>	16 x 100	PS	12	5 x 500	12.5	0.096	20
6	<b>401201</b>	16 x 100	PP	12	5 x 500	10.2	0.096	20
7	<b>301202</b>	16 x 102	PS	12	5 x 500	12.9	0.096	20
8	<b>401204</b>	16 x 100	PP	12	5 x 500	10.2	0.096	20

Codes **301200** (mod. 1), **401200** (mod. 2) and **401204** (mod. 8) have internal graduations. Codes **301213** (mod. 3) and **301212** (mod. 4) are flared at their top for easy pouring and have a special sedimentation base. Codes **301200** (mod. 1), **401200** (mod. 2) and **301202** (mod. 7) have an external rim.

### Dimensions (±0,09)

code	internal diameter mm	external diameter mm	total length mm	maximum volume ml
• <b>301200</b>	14.5	19.1/16.4	100.8	12.9
• <b>401200</b>	14.4	18.8/16.2	99.8	12.5
• <b>301213</b>	15.4/19.2	17.1/19.2	105.1	16.5
• <b>301212</b>	15.4/19.2	17.1/22.0	105.0	16.4
<b>301201</b>	14.5	16.4	99.5	12.9
<b>401201</b>	14.4	16.2	98.4	12.5
• <b>301202</b>	14.5	19.1/16.4	100.8	12.9
<b>401204</b>	14.4	16.2	98.4	12.5

• External diameter of the rim.

All models are suitable for centrifugation.  
PS tubes: 7,500 g; PP tubes: 15,000 g.  
Except code **301212** and **301213** to 3.000 g.



## Polyethylene caps

mod.	code	to fit tubes	bag quantity	bag weight	bag volume	colours (to add at the end of the code)					
1	<b>3053</b>	300500, 400500, 300800.2	2 x 2,000	1.90	0.008	02	08	07	06		
2	<b>3003</b>	300300	5 x 1,000	3.40	0.016	02					
3	<b>3058</b>	300800, 400800, 300800.1, 300400, 400400, 400800.1	2,000	1.90	0.008	02	08	05	07	06	09
4	<b>3071</b>	300700, 301700, 400700, 401700, 300701, serial 300700.6	2,000	1.90	0.007	02	08	05	07	06	09
5	<b>3072</b>	300705, 300900, 400705, 400900, 401100, 300707	2,500	3.20	0.016	02		05	07	06	
6	<b>3050</b>	300705, 300900, 400705, 400900, 401100, 300907, 300904, 300908	2,500	4.10	0.020	02	08		07		
7	<b>3081</b>	300705, 300900, 400705, 400900, 401100, 300707, 300907, 300904, 300908	2,500	5.00	0.030	02			07	06	
8	<b>3070</b>	300100	1,000	1.20	0.010					06	
9	<b>3055</b>	301201, 401201, 301200, 401200, 301202, 401204	2,500	4.00	0.020	02	08	05	07	06	
10	<b>3082</b>	301201, 401201, 401204	2,500	5.10	0.028	02		05			
11	<b>3066</b>	301213, 301212	1,500	1.15	0.008	01					

Ask for other colours.

### General features of our caps:



**3053** Internal diameter: 10.00 mm  
External diameter: 11.85 mm  
Total Length: 11.30 mm

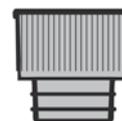
Includes a small internal chamber. Light-weighted.  
Ergonomical. Ribbed for a better handling while using gloves.  
Cap includes two internal ribs to clamp firmly on the tube.  
Leakproof.



**3003** Internal diameter: 9.25 mm  
External diameter: 11.35 mm  
Total length: 16.60 mm

Flat base. No chamber. Ribbed.  
Cap includes three internal ribs to clamp firmly on the tube.  
Leakproof.





**3058** Internal diameter: 10.60 mm  
External diameter: 15.00 mm  
Total length: 15.30 mm

Includes a small internal cavity designed to prevent possible drop spillage. Ergonomical.

Ribbed for a better handling while using gloves. Leakproof. Cap includes two ribs to clamp firmly on the tube. Top of the cap raised for easy-on, easy-off use and to avoid cap deformation from repeated removal.

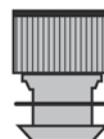


**3050** Internal diameter: 13.95 mm  
External diameter: 19.30 mm  
Total length: 13.15 mm

Includes an internal chamber for more liquid filling, thus compensating for the loss of space inside the tube caused by the insertion of a cap. Leakproof closing. Ergonomical. Ribbed surface. Cap shape is slightly conical for a better handling.

Also features an external flap so as to:

- avoid contact between liquid and fingers when opening the tube,
- prevent dripping when cap is left on the benchtop,
- provide easy single-handed opening,
- offer a cap specially designed to fit our range of blood collection tubes, diameter 15 mm.



**3072** Internal diameter: 15.4 mm  
External diameter: 17.00 mm  
Total length: 21.6 mm

**3055** Internal diameter: 14.05 mm  
External diameter: 17.05 mm  
Total length: 21.77 mm

**3071** Internal diameter: 11.25 mm  
External diameter: 13.30 mm  
Total length: 17.40 mm

Those three flange plug caps present significant advantages over other flange caps existing on the market, which are:

- a larger size, providing a larger surface for finger rest;
- flanges have a larger size than on other caps. More space between each flange increase the cap sealing qualities;
- a small internal cavity designed to prevent possible drop spillage;
- a raised top for easy-on, easy-off use and to avoid cap deformation from repeated removal;
- a ribbed surface;

Note on flange cap dimensions: using flange caps implies reducing tube capacity. If as much tube volume as possible is required, we recommend the use of those caps including a chamber, such as codes 3082, 3050 and 3081. To avoid possible liquid spillage on the benchtop, leave caps stand with flanges up.



**3081** Internal diameter: 13.80 mm  
External diameter: 19.88 mm  
Total length: 19 mm

One of the caps offering the largest chamber on the market, thus compensating for the loss of space inside the tube caused by the insertion of a cap. Leakproof closing.

This cap allows an almost complete filling of the tube and eliminates the need for a fill-in line.

Ribbed for a better handling while using gloves.

The inner part of the cap, long-sized, consists of three rings to ensure a tight, safe leakproof closing. Top of the cap raised for easy-on, easy-off use and to avoid cap deformation from repeated removal. Ideal for use with urine.

To avoid possible liquid spillage on the benchtop, leave caps stand with flanges up.



**3082** Internal diameter: 14.55 mm  
External diameter: 20.45 mm  
Total length: 18.50 mm

It has the same characteristics than the previous cap.



**3070** Internal diameter: 14.80 mm  
External diameter: 19.20 mm  
Total length: 25.35 mm

Ribbed for a better handling while using gloves.

No chamber. Leakproof. Includes four internal rims to clamp firmly on tube. Reversible cap: use it as a watertight seal, or invert it for use in its "re-cap" position, as a simple closure, when no leakproof seal is required.



**3066** External diameter: 23.30 mm  
Total length: 5.90 mm

Light-weighted. Includes a lifting tab for easy opening.





### Re-caps

Ideal for re-capping blood collection tubes «vacuum type». Suitable for other glass and plastic tubes. Manufactured in flexible polyethylene. Easy to cap and remove.

code	description	case quantity	case weight	case volume
308502	Ø 12-13 mm natural colour	6 x 1,000	1.70	0.025
308506	Ø 12-13 mm red colour	6 x 1,000	2.18	0.025
308602	Ø 15,2-16 mm natural colour	6 x 1,000	3.31	0.025
308606	Ø 15,2-16 mm red colour	6 x 1,000	3.31	0.025

Other colours available on request, minimum order quantity is 6,000 units.



### Universal reversible cap

Precision molded from low density polyethylene. Designed to recap most tubes from 12 mm to 16 mm diameter. It protects from aerosols and guards sample against cross-contamination and laboratory areas against infection and spillage. Very sturdy under most rigorous procedures, including centrifugation. Simple and quick removal thanks to its fins. Non autoclavable.

code	colour	case quantity	case weight	case volume
308702	natural	1,000	0.46	0.004
308705	blue	1,000	0.46	0.004
308706	red	1,000	0.46	0.004



### 15 ml conical tubes, sterile

CE (IVD)

Tubes made of transparent, copolymer polypropylene.

Green caps made of polyethylene with an internal joint which ensures leakproofness.

Tubes feature a solvent resistant white panel and black graduations for use both for clear or dark samples.

**DNase, RNase, endotoxins and metal free.** They are sterile by radiation and withstand temperatures down to -90°C.

Resistance to centrifugation: **17,000 g.**

Autoclavable tube (the joint of the cap is not autoclavable).

Two options available:

- Supplied in bags of 50 units. Bags printed with instructions of use.
- Supplied in fiber racks of 25 ml. Racks with holding grip, numbered grid and instructions printed on the base. Racks fold flat for storing (when empty) or recycling. Every case contains ten bags with two racks.

code	description	case quantity	case weight	case volume
409920	bag 50 units	10 x 50	4.12	0.032
New 409920R	rack 25 units	10 x (2x25)	4.12	0.032



### EUROTUBO® 15 ml conical tubes

CE (IVD)

Tubes made of transparent polypropylene, conical bottom, suitable for centrifugation tests in immunology, microbiology, etc. Continuous thread, external moulded graduations in 0,5 ml increments.

Frosted area (55 x 10 mm).

Blue cap in polyethylene with hermetical closure thanks to its internal elastic obturation.

Code **429910** is autoclavable (121°C) with the cap not being closed, just placed on the thread.

Codes **429920** and **429946**: **autoclave** not recommended, as they have been sterilised by radiation.

Code **429920** is supplied sterile in 25 microns polyethylene bags (100 units).

The bag specifies IVD, lot number, expiration date,...

Code **429946** is supplied sterile in individual bags. Resistance: **5,000 g**.

Length (with cap): 120 mm. External mouth diameter: 17 mm.

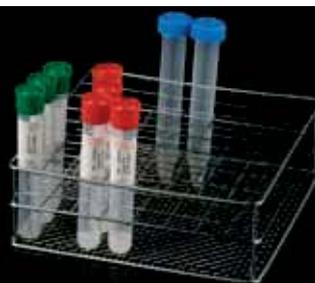
External cap diameter: 20,9 mm.

code	description	case quantity	case weight	case volume	cases per pallet
<b>429910</b>	non sterile	500	3.8	0.029	60
<b>429920</b>	<b>STERILE</b>	5 x 100	3.9	0.029	60
<b>429946</b>	<b>STERILE</b> individually bagged	500	3.9	0.038	54

Please find racks for these tubes in Chapter 10. Sample Storage and Cryogenics.

#### POLYPROPYLENE RACKS:

- W-016
- W-013
- 19566



#### METAL RACKS:

- A-202
- A-212
- A-222
- A-242



### EUROTUBO® 12 ml screw cap tubes, round bottom

CE (IVD)

Made of **autoclavable** (121°C) transparent polypropylene or polystyrene.

Green cap made of high density polyethylene. Dimensions: 15 x 102 mm.

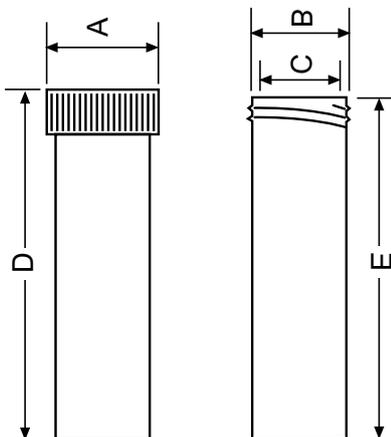
The external skirt allows the tubes to remain **free-standing**. Supplied screwed.

The sterile model (ethylene oxide) is supplied individually in flow-pack bag, with indication of batch, expiration date, etc... according to the guidelines for sterile products.

Resistance to centrifugation: **PS: 7,500 g. PP: 15,000 g.**

**Attention:** For autoclaving, the cap should be loose on the thread and not tightly fitted.

mod.	code		description	maximum volume ml	volume recom. ml	case quantity	case weight	case volume	cases pallet
1	<b>301402</b>	<b>STERILE</b>	polystyrene individually wrapped	14.4	12	6 x 250	13.00	0.096	20
2	<b>301403</b>		polystyrene	14.4	12	6 x 250	12.00	0.082	24
3	<b>401402</b>	<b>STERILE</b>	polypropylene individually wrapped	14.2	12	6 x 250	11.80	0.096	20
4	<b>401403</b>		high transparency polypropylene	14.2	12	6 x 250	11.00	0.082	24



#### Dimensions (±0,09):

code	external cap Ø mm A	external tube Ø mm B	internal tube Ø mm C	length with cap mm D	length without cap mm E
<b>301402, 301403</b>	20.9	16.3	14.4	103.9	102.5
<b>401402, 401403</b>	20.9	16.2	14.3	102.9	101.5



### EUROTUBO® 50 ml conical tubes

CE (IVD)

Tubes made of transparent polypropylene, conical bottom, suitable for centrifugation tests in immunology, microbiology, etc. Perfect to analyse Koch bacillus. Continuous thread, external moulded graduations in 5 ml increments. Blue cap in high density polyethylene with hermetical closure thanks to its internal elastic obturation. Skirted and non skirted versions, sterilised by radiation and non sterilised versions.

Sterile codes are either supplied in individual bags (codes **429926**, **429927**), in bags of 100 units (codes **429926.10**, **429927.10**), or in bags of 25 units (codes **429926.25**, **429927.25**) and resist up to **7,000 g**. Autoclave not recommended as they have been ionised. Non sterile codes withstand up to **12,000 g** and are autoclavable (121 °C) with the cap loose on the thread and not tightly fitted.

Every version is supplied capped, excepting code **429900SP**, which is supplied uncapped, with the cap in a separated bag.

code		description	external cap Ø mm	internal tube Ø mm	external tube Ø mm	length with cap mm	case quantity	case weight	case volume	cases per pallet
<b>429900</b>		non skirted	34.4	27.2	29.5	117.5	500	7.9	0.075	24
<b>429900SP</b>		non skirted, unscrewed cap	34.4	27.2	29.5	117.5	500	7.9	0.075	24 <b>NEW</b>
<b>429901</b>		skirted	34.4	27.2	29.5	117.5	500	8.5	0.082	24
<b>429926</b>	<b>STERILE</b>	non skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.2	0.082	24
<b>429926.25</b>	<b>STERILE</b>	non skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.2	0.082	24 <b>NEW</b>
<b>429926.10</b>	<b>STERILE</b>	non skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	7.9	0.082	24
<b>429927</b>	<b>STERILE</b>	skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.8	0.082	24
<b>429927.25</b>	<b>STERILE</b>	skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.8	0.082	24 <b>NEW</b>
<b>429927.10</b>	<b>STERILE</b>	skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	8.5	0.082	24



Please find racks for these tubes on Chapter 10. Sample Storage and Cryogenics.

#### POLYPROPYLENE RACKS:

- W-018
- 19568
- 19570

#### METAL RACKS:

- R-292 • R-293
- R-281 • R-282
- R-283





### 50 ml conical high resistance tubes. Sterile

CE (IVD)

In transparent polypropylene with fitted green polyethylene screw cap, featuring an internal elastic obturator.

**DNAse, RNAse, endotoxins and metal free.**

Black graduations every 5 ml and moulded mark at 50 ml, with white labelling area.

Available skirted (freestanding) and non skirted.

Dimensions: 29.6 x 114.6 mm.

Skirted tube can withstand centrifugation up to **10,000 g**.

Non skirted, up to **20,000 g**. Sterile.

In case autoclaving is necessary, cap should not be tightly screwed so air can pass through.

Supplied capped in bags of 50 units.

Bags are printed with instructions for use and feature a double closure: a first tamper evident seal that helps guaranteeing sterility, and a secondary zip-lock, resealable closure.

code	description	case quantity	case weight	case volume
<b>409922</b>	non skirted	10 x 50	8.16	0.079
<b>New 409923</b>	skirted	10 x 50	8.80	0.079

See our cups on Chapter 3. Haematology and Biochemistry



### Sterile culture tubes in polystyrene

Tubes supplied with either a two position ribbed polyethylene cap, which can be left loose for aerobic work or sealed for anaerobic cultures.

They are biologically inert, exempt from mold release agents, and withstand up to 1,400 g and 70°C.

Packaged in self-standing resealable zip-lock bags of 125 units.

code	dimensions mm	case quantity	case weight	case volume
<b>300807</b>	12 x 75	8 x 125	4.33	0.033
<b>300808</b>	17 x 100	8 x 125	7.14	0.060

### 5 and 10 ml freestanding, round bottom tubes

Freestanding tubes with screw caps. Conceived for sampling, transport and midterm storage.

Feature molded graduations at 1ml increments and a large surface for labeling and identification.

Round bottom tubes made of **autoclavable** polypropylene, leakproof caps made of polyethylene.

Withstand temperatures between **122°C and -80°C** (-40° as the lowest working temperature).

Certified to the **IATA 95kPA** standard for safe shipping of samples.

code	description	case quantity	case weight	case volume
439905	5 ml PP thread tube	2 x 500	5.45	0.032
439910	10 ml PP thread tube	2 x 500	6.35	0.055



### Isothermal bags

Isothermal bags for the transport of biological samples, manufactured from PVC, PE and polyurethane (foam). Green colour. The isothermal bags have two functions: keeping the temperature of samples for 6 hours while being transported, whatever the climatic conditions; protecting the samples and their contents.

#### Bags include the following elements:

- three different locks: by velcro (excepting 6 l model), by zip fastener and by a coded padlock for 40 l models.
- an inner pocket designed to hold the included cold packs,
- a transparent outer pocket, at the front of the bag, for laboratory identification,
- a transparent pocket, over the top of the bag, to insert documents.

See more information in Chapter 6.  
Sampling and Transport

code	dimensions mm	litres	quantity	weight	volume
900073	230x230x170	6	1	0.92	0.009
900074	220x220x260	10	1	1.20	0.013
900076	390x250x280	27	1	1.40	0.027
900078	450x300x300	40	1	1.54	0.041



### Multifunction bag

Manufactured in polyethylene (125 microns).

Useful for transporting different kind of samples and documents.

It has a metal zip closure and a blue strip in the top.

It can be used as many times as necessary.

Long-lasting use.

code	description	case quantity	case weight	case volume
200338	bag 250 x 195 mm	100	2.00	0.007

See our wide range of bags in Chapter 6.  
Sampling and Transport





### GLASS TUBE RANGE

The high quality of our range of disposable glass culture tubes and screw threaded tubes is reflected in the uniformity of their wall thickness, shape of their bottoms, close tolerances, well formed bottoms and well moulded screw-neck.

All of our tubes are fully annealed at temperatures above 500 degrees Centigrade to eliminate contamination, reduce breakage and increase strength.

The majority of our tubes are packaged in plain outer cases. Each tube is polished individually.

#### Culture tubes:

They are available in either borosilicate or soda lime glass. Both glasses differ primarily in their chemical composition and their chemical resistance.

**Borosilicate glass** is a type of glass with a higher resistance to thermal shock. For this reason borosilicate glass is more suitable where the tubes will be heated or cooled rapidly with less chance of breakage.

**Soda lime glass** is a more economical alternative and suits for most culture medium, bacteriological and laboratory applications where the tube will not be subjected to extreme temperature changes.

**Screw-neck tubes** are ideal for tissue culture and general bacteriological work. Tubes are supplied with standard GPI finishes.

**The screw - neck vials** are made of borosilicate glass and are basically used for diagnosis, pharmaceuticals, chemicals, laboratory analysis, storage of liquids and powders. The caps presented are manufactured in autoclavable polypropylene with internal silicone joint.

#### Different packagings are available, depending on the model of tube:

**Boxes:** sturdy cardboard boxes. Each box contains small shrink-wrapped cases. Tubes are presented horizontally.

**Trays:** sturdy shrink-wrapped cardboard trays. Tubes are presented vertically.



### Culture tube cap

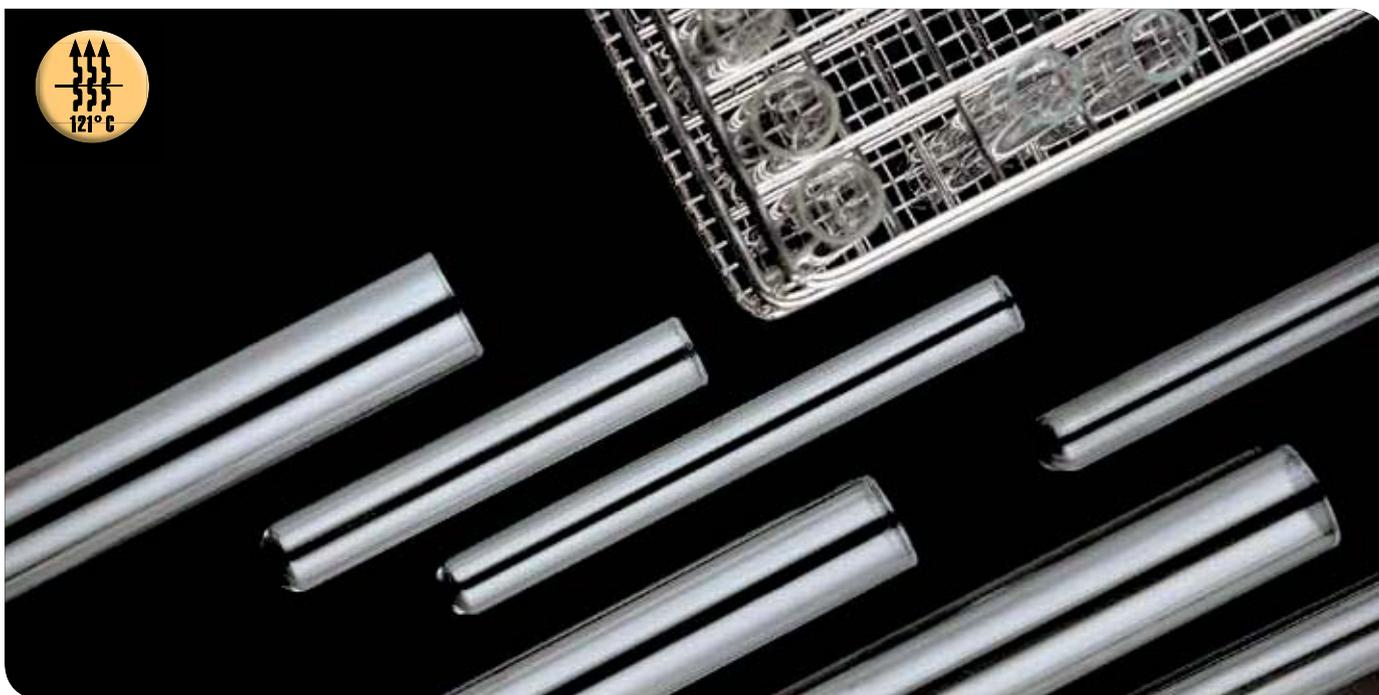
Made of polypropylene, **autoclavable** up to 121 °C.

Suitable with codes **916100, 816100, 916150, 816150** and **816160**.

Vented caps (with inner flats).

Recommended for glass tubes.

code	recommended for tubes Ø mm	colour	case quantity	case weight	case volume
617402	16	natural	4 x 1,000	5.3	0.05



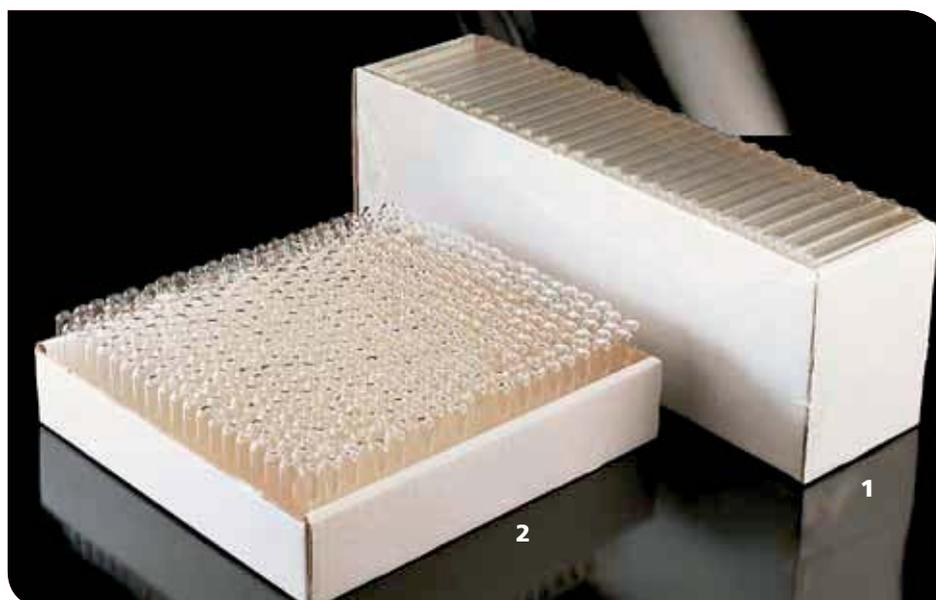
### Round bottom glass tubes

Made of **borosilicate** or **soda** glass.

The high quality of those tubes is reflected in the uniformity of their wall thickness and of their diameter and height dimensions.

Supplied in small quantities per case for a more convenient use in laboratory.

code boro	code soda	total capacity ml	Ø int. mm tube	Ø ext. mm tube	height mm	thickness mm	case quantity	case weight	case volume
<b>Supplied in boxes (1)</b>									
901075	801075	4	8.20	9.75	75	0.60	4 x 250	3.60	0.010
901275	801275	6	10.20	11.60	75	0.60	4 x 250	4.50	0.012
913100	813100	10	11.10	12.70	100	0.60	4 x 250	5.90	0.024
916100	816100	15	13.95	15.75	100	0.60	4 x 250	9.10	0.034
916150	816150	22	13.55	16.00	150	0.70	4 x 250	13.60	0.049
	816160	27	14.40	16.00	160	0.55	500	5.50	0.018
918150	818150	28	15.00	18.00	150	0.85	2 x 250	7.30	0.034
	820150	34	17.20	20.00	150	0.85	100	1.92	0.006
	820200	47	17.15	19.25	200	0.85	250	6.30	0.020
<b>Supplied in trays (2)</b>									
	801175T	6	10.10	11.60	75	0.50	500	1.89	0.005





### Screw threaded glass tubes

Made of **borosilicate** or **soda glass**. The high quality of those screw threaded tubes is reflected in the uniformity of their wall thickness and of their diameter and height dimensions.

Supplied in small quantities per case for a more convenient use in laboratory.

Tubes are supplied without caps. To order caps see below.

Polypropylene caps are designed for the round bottom tubes.

Aluminium caps are designed for flat bottom tubes.

code	total capacity ml	screw	Ø int. mm tube	Ø ext. mm tube	height mm	thickness mm	case quantity	case weight	case volume	suitable cap
Round bottom <b>borosilicate</b> tubes, supplied in boxes.										
<b>713100</b>	5	13 - 415	10.65	12.75	100	1.00	4 x 250	10.90	0.022	<b>617100</b>
<b>716100</b>	11	15 - 415	14.00	16.00	100	1.05	4 x 250	13.60	0.034	<b>617200</b>
<b>716125</b>	14	15 - 415	14.00	16.00	125	1.05	4 x 250	15.90	0.042	<b>617200</b>
<b>716150</b>	18	15 - 415	14.00	16.00	150	1.05	4 x 250	19.10	0.049	<b>617200</b>
<b>720150</b>	34	18 - 415	17.70	20.00	150	1.15	4 x 125	11.80	0.036	<b>617300</b>
Flat bottom <b>soda</b> glass tubes supplied in trays.										
<b>617145</b>	<b>24</b>	15 - 415	14.20	17.75	144.5	1.05	252	5.54	0.010	<b>617000</b>



### Screw caps for the above tubes

For round bottom borosilicate glass tubes, choose **polypropylene caps (black colour)**.

For flat bottom soda glass tubes, choose **aluminium** caps, with an internal joint.

Pharmaceutical quality.

Both models of caps are fully **autoclavable**.

code	type of cap	bag quantity	bag weight	bag volume
<b>617000</b>	aluminium	500	0.4	0.005
<b>617100</b>	polypropylene	1,000	0.9	0.001
<b>617200</b>	polypropylene	1,000	1.2	0.002
<b>617300</b>	polypropylene	500	1.1	0.003



### Flat bottom screw threaded vials

Made of ultra clear borosilicate glass. Fully **autoclavable**.

Supplied in trays individually shrink-wrapped. Thickness: 1 mm. Caps are supplied separately. To order caps see below.

mod.	code	dimensions mm	volume ml	screw	tray quantity	tray weight	tray volume	suitable cap
1	900204	15 x 45	4	13-425	100	0.4	0.001	917000
2	900205	18 x 50	5	15-425	250	1.1	0.003	918000
3	900208	17 x 60	8	15-425	100	0.7	0.001	918000
4	900211	22 x 48	10	18-400	100	0.9	0.001	922000
5	900212	19 x 65	12	18-400	100	1.1	0.002	922000
6	900220	28 x 65	20	22-400	2 x 150	5.4	0.010	928000
7	900225	28 x 70	24	22-400	100	1.9	0.005	928000

### Caps for the above vials:

Made of **autoclavable** polypropylene. Black caps feature an internal silicone joint.

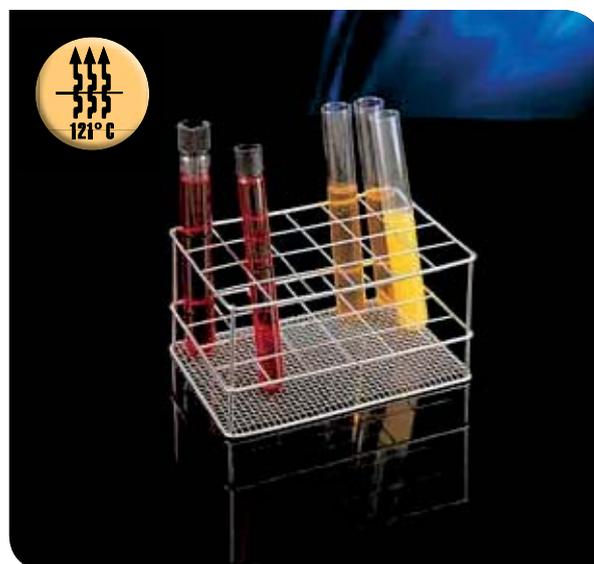
letter	code	screw	bag quantity	bag weight	bag volume
A	917000	13-425	100	0.10	0.001
B	918000	15-425	250	0.18	0.001
C	922000	18-400	250	0.22	0.001
D	928000	22-400	300	0.28	0.001

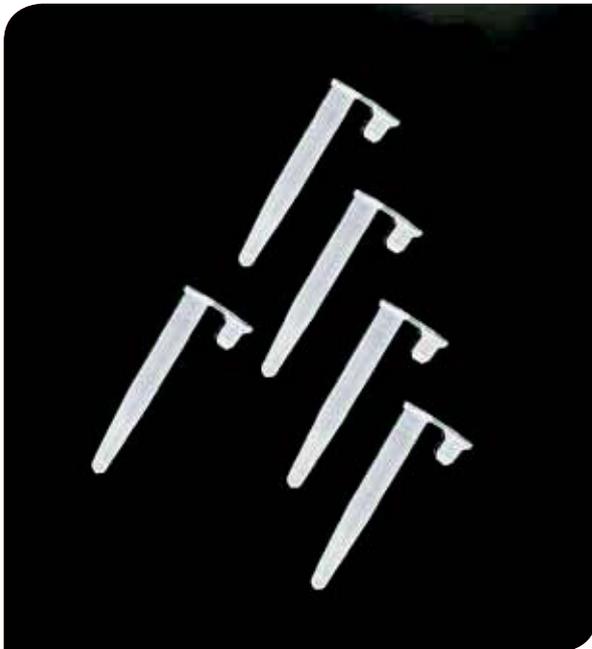
### Racks for containers up to 23 mm Ø

Made of stainless steel. 25 mm square holes.  
Features a strong woven mesh base.

code	large x width x height mm	tubes capacity	quantity	weight	volume
D-200	265 x 265 x 85	100 (10 x 10)	1	0.425	0.0059
D-230	219 x 166 x 85	48 (8 x 6)	1	0.238	0.0030
D-240	165 x 110 x 85	24 (6 x 4)	1	0.145	0.0015
D-250	111 x 84 x 85	12 (4 x 3)	1	0.095	0.0008

See other racks for tubes in Chapter 10.  
Sample Storage and Cryogenics.





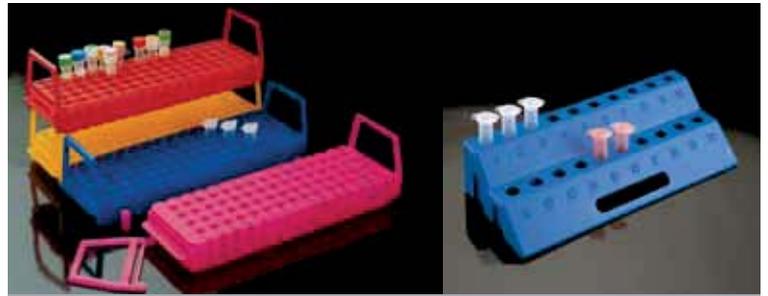
### 0.4 ml microtubes, Beckman® type

Manufactured in polyethylene.

Dimensions: 5.50 x 47.50 mm (Ø x h), capped.

Withstand centrifugation up to 14,000 r.p.m and can be used at temperatures from -10°C to 130°C.

code	description	case quantity	case weight	case volume
900007	Beckman type microtube 0.4 ml	18 x 1,000	13.05	0.069



See our wide range of racks for microtubes in Chapter 10. Sample storage and Cryogenics



### 0.5 ml microtubes, Vitatron® type

Manufactured in polypropylene.

**Autoclavable.** Graduated.

Easy handling caps: they can be opened and closed with one hand.

Will withstand centrifugation up to: **14,000 g**.

Dimensions: 7.87 x 31.8 mm (diameter x height) capped.

code	description	case quantity	case weight	case volume
900118	Vitatron type microtube 0.5 ml	12 x 1,000	7.0	0.049

### 0.5 ml microtubes, Vitatron® type

Made of **autoclavable** polypropylene. Ideal for little sample volumes, microtechniques, microsedimentation...

Suitable for transport, storage and freezing of biological samples.

Watertight closing system.

Easy handling caps: they can be opened and closed with one hand.

Easily pierceable.

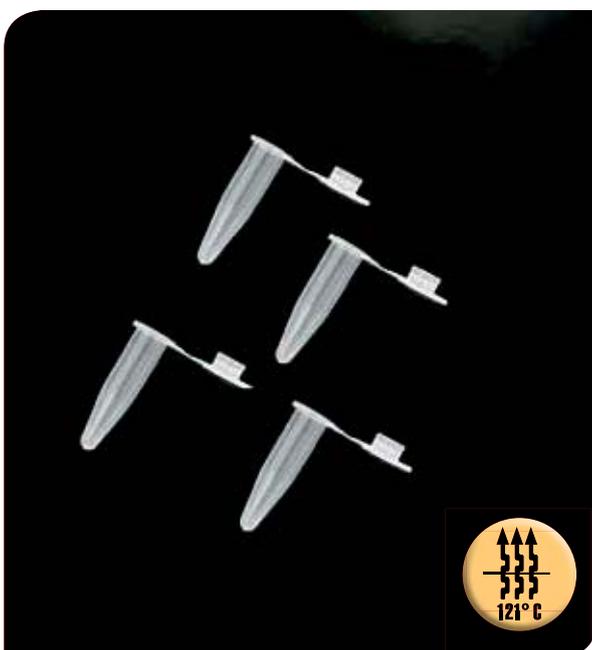
Will withstand centrifugation up to **11,000 g**.

The rim in the inner part of the cap assures an optimum watertightness.

Resist temperatures from **-10 °C** to **130 °C**.

Dimensions: 7,50 x 31,25 mm (Ø x h) capped.

code	description	case quantity	case weight	case volume
900117	Vitatron® type microtube 0.5 ml	14 x 1,000	7.30	0.069



### 0.5 ml microtubes

Made of ultra clear polypropylene. **Autoclavable.**

Tubes have a frosted writing surface on side and on closure for better sample identification.

Caps are easy to handle and can be opened and closed with one hand. Lids are easily pierceable. Tubes have moulded-in graduations in 100  $\mu$ l increments from 0.1 to 0.6 ml. Withstand centrifugation up to **17,000 g**. Dimensions: 30 x 8 mm. Can be used from  $-80^{\circ}\text{C}$  to  $121^{\circ}\text{C}$ .

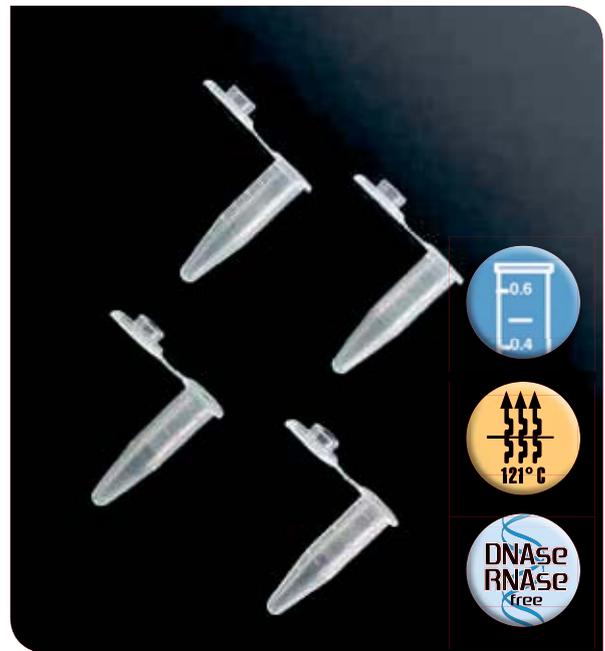
**RNAse, DNAse and PCR inhibitors free.**

Model **4092.1NS**, with a low adhesion surface, is specially designed for research procedures such as protein work and nucleic acid amplifications.

Made from special resins to minimise liquid retention and ensure optimum sample yield, thus eliminating the use of lubricants that may be harmful to samples.

The proprietary formulation is completely **non-reactive**.

code	description	case quantity	case weight	case volume
<b>4092.1N</b>	natural graduated	10 x 1,000	7.28	0.048
<b>4092.1NS</b>	low adherence natural graduated	10 x 500	3.64	0.027



### Standard 1.5 ml microtubes

Made of ultra clear polypropylene. **Autoclavable.**

Attached flat caps.

Tubes can be easily opened and closed with one hand. Ideal for the storage and freezing of any kind of biological material (cells, sperm, bacteria...).

Can be used at temperatures down to  $-100^{\circ}\text{C}$ . Withstand centrifugation up to **14,000 rpm**.

code	dimensions $\varnothing$ x h mm	colour	case quantity	case weight	case volume
<b>200400</b>	10.86 x 39.06	natural	5 x 1,000	5.40	0.049
<b>200401</b>	10.86 x 39.06	yellow	5 x 1,000	5.40	0.049
<b>200405</b>	10.86 x 39.06	blue	5 x 1,000	5.40	0.049
<b>200407</b>	10.86 x 39.06	green	5 x 1,000	5.40	0.049
<b>200410</b>	10.86 x 39.06	pink	5 x 1,000	5.40	0.049



### 1.5 ml microtubes

Manufactured in polypropylene. **Autoclavable.**

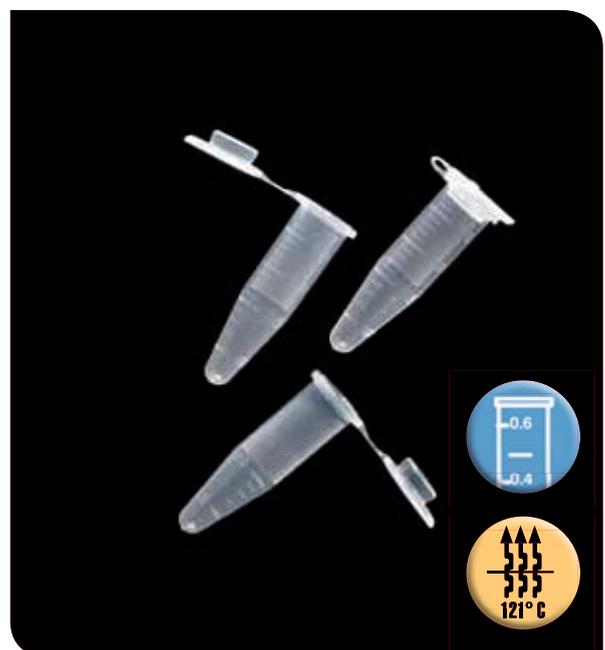
Easy opening and closing.

**Graduated** tube.

It features a frosted area for writing. Flat cap.

Will withstand centrifugation up to: **12,500 g**.

code	dimensions $\varnothing$ x h mm	case quantity	case weight	case volume
<b>200400P</b>	10.6 x 41.5	12 x 500	7.00	0.049





### 1.5 ml safety lock microtubes

Made of ultra clear polypropylene.

Feature a special "snap-seal" secure lock.

A special locking clasp with a distinctive audible snapseal design ensures tubes will not open during centrifugation. Tubes have a frosted writing surface on side and on attached closure for better sample identification.

Caps are easy to handle and can be opened and closed with one hand. Lids are easily pierceable.

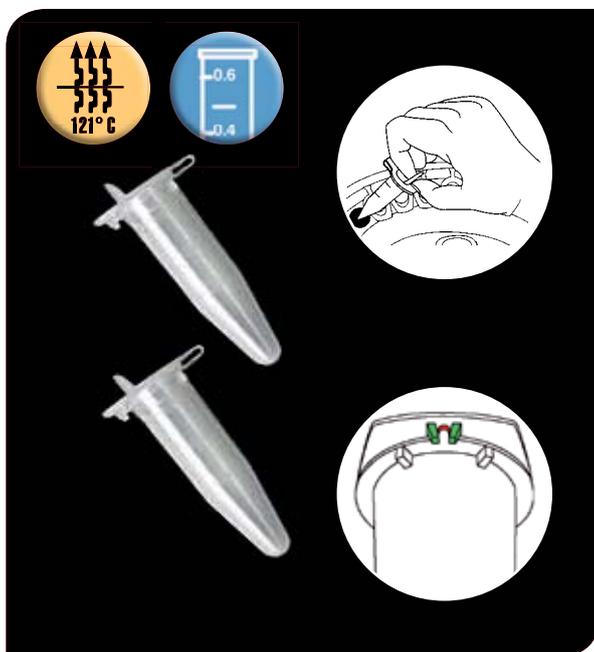
Tubes have moulded-in graduations in 0.5 ml increments.

**Autoclavable.**

Can be used from **-90 °C to 121 °C.**

Withstand centrifugation up to **17,000 g.**

code	dimensions Ø x h mm	case quantity	case weight	case volume
<b>4092.5N</b>	11 x 39	10 x 500	5.76	0.055



### 1.5 ml microtubes with secure lock pick-up tab.

Same characteristics as code **4092.5N** but these microtubes include a pick-up tab for easier handling without actually touching the tube.

Pierceable cap.

Withstand centrifugation up to **17,000 g.**

**Autoclavable.**

Withstand temperatures from **-175 °C to 121 °C.**

code	colour	case quantity	case weight	case volume
<b>4091.1N</b>	natural	10 x 500	4.94	0.045

### 1.5 ml graduated microtubes

Made of ultra clear polypropylene.

**Autoclavable.**

Feature a frosted writing surface on side and on closure for better sample identification. Caps are easy to handle and can be opened and closed with one hand. Lids are easily pierceable.

Can be used from **-80°C to 121°C.**

Dimensions: 39 x 11 mm.

Caps specially designed to reduce popping when centrifugation, freezing, boiling, storing or shipping is required.

- when the objective is to avoid liquid remaining on the wall of the tube, just push the cap slightly and a little centrifugation time is required.
- when centrifugation is required, push the cap firmly to achieve complete closure.

Tubes withstand centrifugation up to **13,000 g.**

code	colour	case quantity	case weight	case volume
<b>4092.2N</b>	natural	10 x 500	6.82	0.044
<b>4092.2AM</b>	yellow	10 x 500	6.82	0.044
<b>4092.2V</b>	green	10 x 500	6.82	0.044
<b>4092.2A</b>	blue	10 x 500	6.82	0.044

### 1.5 ml microtubes. DNASE, RNASE free

Made of ultra clear polypropylene. **Autoclavable.**

Attached flat caps.

**Graduated** from 100 µl.

Tubes can be easily opened and closed with one hand. Ideal for the storage and freezing of any kind of biological material (cells, sperm, bacteria...).

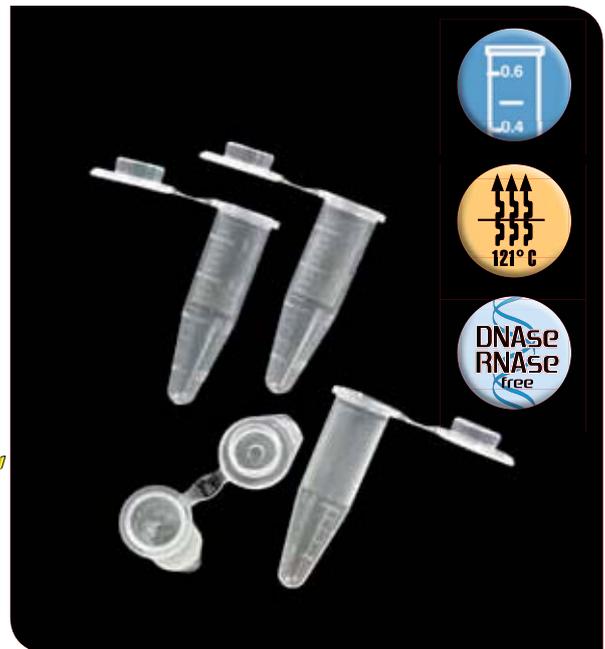
Can be used at temperatures from -90 to 121°C.

Withstand centrifugation up to **20,000 g**.

**DNase, RNase, DNA and PCR inhibitors free.**

Dimensions (Ø x h): 10.7 x 39.1 mm.

code	description	case quantity	case weight	case volume
4092.3N	natural colour,	10 x 500	7.30	0.048
4092.3NS	natural colour, clear siliconised	10 x 250	4.09	0.030 <i>New</i>



### 2 ml microtubes with attached caps

Made of ultra clear polypropylene.

**Autoclavable.**

**Certified RNase and DNase free.**

Feature a frosted writing surface on side and on closure for better sample identification.

Easy handling: tubes can be opened and closed with one hand.

Lids are easily pierceable.

Tubes have moulded-in graduations in 100 µl increments up to 2 ml.

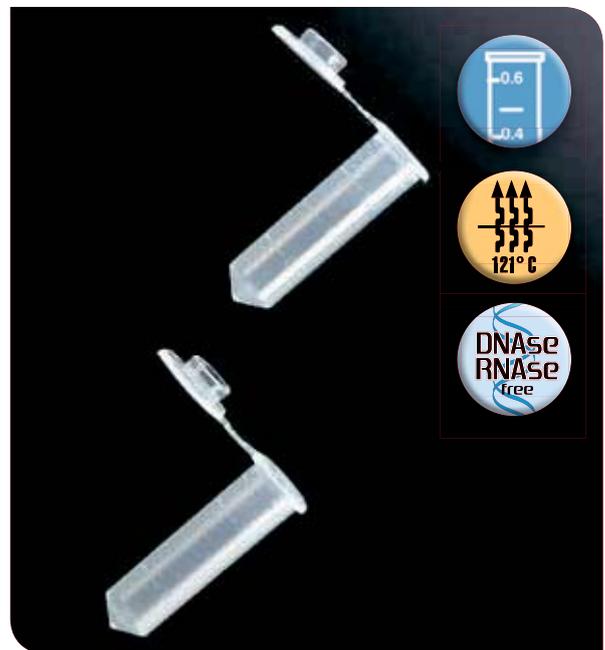
Dimensions: 11 x 40 mm.

Can be used at temperatures from -90°C up to 120°C.

Withstand centrifugation up to **17,000 g**.

Model **4092.6NS** has a low adhesion surface for special applications such as protein work.

code	description	case quantity	case weight	case volume
4092.6N	natural colour,	10 x 500	7.27	0.048
4092.6NS	natural colour, clear siliconised	10 x 250	4.09	0.030



### 2 ml. graduated microtube

Microtubes made of ultra clear polypropylene. **Autoclavable.** 2 ml graduated tubes with frosted area for writing.

Flat cap that features a secure lock with safety shield.

Easy handling with just one hand.

They can be used at temperatures from -20°C up to 121°C.

Withstand centrifugation up to **12,000g**.

code	dimensions Ø x h mm	case quantity	case weight	case volume
4092.7N	10.3 x 40.5	10 x 500	6.50	0.055





### Screw thread microtubes

Made of **autoclavable** polypropylene, they can be used at extreme temperatures from  $-190^{\circ}\text{C}$  to  $+121^{\circ}\text{C}$ . Two versions available: in transparent polypropylene, or opaque brown (designed to be used with light sensitive samples).

**Certified RNase, DNase and Pyrogen free.** Tubes and caps can be centrifuged at **17,000 g**. Caps are supplied separately, see below. Dimensions: 11 x 44 mm.

mod.	code	volume ml	skirt	case quantity	case weight	case volume
<b>Transparent polypropylene</b>						
1	<b>409110.1</b>	0.5	yes	1,000	1.34	0.009
2	<b>409110.2</b>	1.5	yes	1,000	1.34	0.009
3	<b>409110.3</b>	1.5	no	1,000	1.34	0.009
4	<b>409110.4</b>	2.0	yes	1,000	1.34	0.009
<b>Brown polypropylene</b>						
5	<b>409113.1</b>	0.5	yes	1,000	1.34	0.009
6	<b>409113.2</b>	1.5	yes	1,000	1.34	0.009
7	<b>409113.3</b>	1.5	no	1,000	1.34	0.009
8	<b>409113.4</b>	2	yes	1,000	1.34	0.009

### Caps for the above tubes

Made of polypropylene.

Natural or opaque brown colour (codes **409007.M** and **409008.M**, recommended for brown microtubes).

Caps are available either with an attachment loop or without loop. Both models have a sealing O-ring (red) of silicone to ensure a positive leakproof seal.

For sample identification, colour coding inserts can be placed upon caps (made of polypropylene).

Cap dimensions: 13 x 8 mm.

mod.	code	description	case quantity	case weight	case volume
1	<b>409007.N</b>	cap with loop	1,000	0.40	0.003
2	<b>409008.N</b>	cap without loop	1,000	0.40	0.003
3	<b>409007.M</b>	brown cap with loop	1,000	0.40	0.003
4	<b>409008.M</b>	brown cap without loop	1,000	0.40	0.003
5	<b>409111A</b>	blue insert	500	0.58	0.003
6	<b>409111AM</b>	yellow insert	500	0.58	0.003
7	<b>409111B</b>	white insert	500	0.58	0.003
8	<b>409111R</b>	red insert	500	0.58	0.003



### Self standing, screw thread tamper evident microtubes

Microtubes and caps are made of autoclavable ultra clear polypropylene. Ribbed cap with internal silicone O-ring for a positive **leakproof seal**. Super fast  $\frac{1}{4}$  turn thread design. **Tamper evident** seal which notices if microtube has been opened.

**Rnase, Dnase and Pyrogen free.**

They can be used at extreme temperatures from  $-196^{\circ}$  to  $+121^{\circ}\text{C}$ .

Resistance to centrifugation: **17,000 g**.

Microtube dimensions: 11 x 44 mm.

Cap dimensions (with tamper-evident ring): 15 x 9 mm.

Used on:

- Test of fertility and DNA testing
- Packaging of diagnostic kits and reagents
- Crime Laboratories

mod.	code	volume ml	case quantity	case weight	case volume
1	<b>409110.1T</b>	0.5	1,000	2.06	0.013
2	<b>409110.2T</b>	1.5	1,000	2.06	0.013
3	<b>409110.4T</b>	2	1,000	2.06	0.013

### Screw thread microtubes

Made of transparent polypropylene.  
Suitable for use in liquid nitrogen, **autoclave** and for boiling applications, and can be used at temperatures down to  $-190^{\circ}\text{C}$ .

**Certified RNase, DNase and Pyrogen free.**

Products ideal for long term sample storage.

Withstand centrifugation at **20,000 g**.

The codes **409111/4** and **409111/6**, with external moulded slots for better handling with gloves.

Dimensions: 10,3 x 44,5 mm (except code **409111/2**: 10,3 x 43,6 mm)

mod.	code	description	graduation	case quantity	case weight	case volume
1	<b>409111/4</b>	0,5 ml skirted	✗	500	0.70	0.002
2	<b>409111/2</b>	1.5 ml	✓	500	0.60	0.002
3	<b>409111/5</b>	1.5 ml skirted	✗	500	0.60	0.002 <i>New</i>
4	<b>409111/3</b>	2.0 ml	✓	500	0.60	0.002
5	<b>409111/6</b>	2.0 ml skirted	✗	500	0.60	0.002
6	<b>409111/7</b>	2.0 ml skirted	✓	500	0.60	0.002 <i>New</i>

### Caps for the above tubes with o-ring

Made of polypropylene of medical degree.  
Feature an internal O-ring to ensure leakproof seal.  
Dimensions 13.0 x 6.0 mm.

**Certified RNase, DNase and Pyrogen free.**

code	colour	case quantity	case weight	case volume
<b>409112/0</b>	natural	500	0.024	0.0001
<b>409112/1</b>	blue	500	0.024	0.0001
<b>409112/2</b>	green	500	0.024	0.0001
<b>409112/4</b>	red	500	0.024	0.0001
<b>409112/6</b>	yellow	500	0.024	0.0001



### Screw cap microtubes, with cap. Sterile

Tubes and caps in medical grade, transparent polypropylene.  
The cap embodies a non-reactive ethylene-propylene joint.  
Suitable for autoclave, liquid nitrogen (gaz) and boiling processes.  
Perfect for long term storage.

Withstand temperatures from  $-190^{\circ}\text{C}$ .

Centrifugation Resistance: **20,000 g**.

**DNase, RNase, DNA, PCR inhibitors and Pyrogen free.**

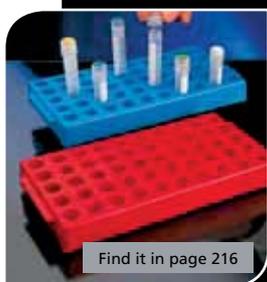
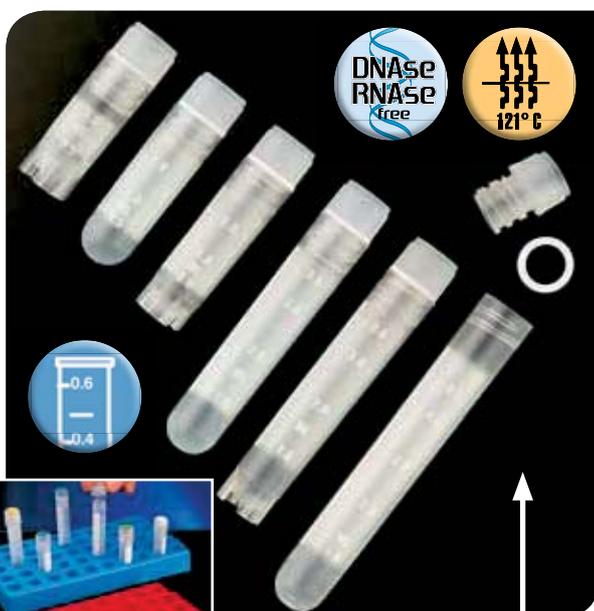
Graduated models feature a frosted area for writing.

The non-graduated model incorporates an external grip for an easy handling.

Microtubes are supplied capped, in bags of 50 units.

code	description	graduation	case quantity	case weight	case volume
<b>409115/4</b>	0.5 ml skirted	<b>STERILE</b> ✗	50 x 50	5.89	0.029
<b>409115/2</b>	1.5 ml non skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029
<b>409115/6</b>	2 ml skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029
<b>409115/3</b>	2 ml non skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029





Find it in page 216



## Sterile cryovials

Tubes made of **autoclavable** polypropylene. Designed for the storage of biological material at temperatures as low as  $-196\text{ }^{\circ}\text{C}$ . (Liquid Nitrogen but in gas state). Cryovials have printed graduations and feature a white marking area for sample identification.

Caps and tubes have both the same coefficient of expansion, which further enhances their leakproof qualities at changing temperatures.

Caps are manufactured in polyethylene\* and embody a silicone o-ring that guarantees leakproof.

Colour code inserts can be fitted into the caps for identification.

**All cryovials are certified RNase, DNase and pyrogen free.**

Cryovials are sterilized by radiation and are packaged in safety-lock bags of 100. Supplied capped.

### External threads:

minimize liquid retention. Non skirted versions withstand centrifugation up to **17,000 g**.

\* 10 ml cryovial (code **401410**) features a polyethylene cap which does not accept inserts.

### Internal threads:

Non skirted versions withstand centrifugation up to **14,000 g**.

### Cryovials with external threads:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409105.1</b>	1.2	yes	12.5 x 42	10 x 100	2.55	0.014
<b>409103.1</b>	2.0	no	12.5 x 47	10 x 100	2.64	0.014
<b>409106.1</b>	2.0	yes	12.5 x 49	10 x 100	2.64	0.014
<b>409107</b>	3.0	yes	12.5 x 71	10 x 100	3.79	0.021
<b>409108</b>	4.0	yes	12.5 x 77	10 x 100	3.90	0.028
<b>409109</b>	5.0	yes	12.5 x 92	10 x 100	4.58	0.028
<b>New 401410</b>	10.0	yes	17.0 x 84	10 x 50	2.80	0.020

\* Capped

### Cryovials with internal threads:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409001</b>	1.2	yes	12.5 x 41	10 x 100	2.55	0.014
<b>409002</b>	2.0	no	12.5 x 48	10 x 100	2.64	0.014
<b>409002.1</b>	2.0	yes	12.5 x 49	10 x 100	2.64	0.014
<b>409003</b>	4.0	no	12.5 x 70	10 x 100	3.79	0.024
<b>409003.1</b>	4.0	yes	12.5 x 72	10 x 100	3.90	0.024
<b>409003.2</b>	5.0	no	12.5 x 90	10 x 100	4.58	0.024

\* Capped

## Colour coded inserts

Made of polypropylene. Very convenient for colour identification in freezers, on benchtops etc. Fit precisely into the caps of cryovials. They feature a little hole in order to help removing them from the cap. Not suitable for code **401410**.

code	colour	case quantity	case weight	case volume
<b>409003A</b>	blue	500	0.10	0.010
<b>409003AM</b>	yellow	500	0.10	0.010
<b>409003R</b>	red	500	0.10	0.010
<b>409003V</b>	green	500	0.10	0.010

### Non sterile cryovials with external threads

Made of polypropylene. Designed for the storage and transportation of biological material. The external thread design provides a smooth and uniform inner surface, thus reducing the risk of contamination. Tubes can be **autoclaved** to 121° C and withstand temperatures down to -190°C. The closures and tubes are both manufactured of polypropylene having the same coefficient of expansion, which further enhances their leakproof qualities at changing temperatures.

Cryovials withstand centrifugation up to 17,000 g. Skirted tubes are not recommended for centrifugation.

Available with or without graduation and white band.

Caps suitable for these cryovials are supplied separately, see code **409110** and series.

#### Cryovials printed without graduation:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409102.1</b>	1.2	yes	12.5 x 43	1,000	2.48	0.010
<b>409104.1</b>	2.0	no	12.5 x 48	1,000	2.57	0.010
<b>409106.2</b>	2.0	yes	12.5 x 49	1,000	2.68	0.010
<b>409107.1</b>	3.0	yes	12.5 x 72	1,000	3.77	0.020
<b>409108.1</b>	4.0	yes	12.5 x 76	1,000	3.82	0.020
<b>409109.1</b>	5.0	yes	12.5 x 93	1,000	4.46	0.020

\* Capped

#### Cryovials with graduation and band:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409132</b>	2.0	yes	12.5 x 49	1,000	2.68	0.010
<b>409133</b>	3.0	yes	12.5 x 72	1,000	3.77	0.010
<b>409134</b>	4.0	no	12.5 x 75	1,000	3.82	0.020
<b>409135</b>	4.0	yes	12.5 x 76	1,000	3.90	0.020

\* Capped

### Caps for the above tubes

Made of polypropylene. Feature a long skirt and a special thread design allowing them to be removed or sealed with a single turn and assuring a better protection of the content. A silicone washer ensures a positive leakproof seal at all temperatures.

Caps are made of polypropylene having the same coefficient of expansion as the above cryovials. See the previous page for colour inserts to fit into these caps.

code	colour	case quantity	case weight	case volume
<b>409110</b>	natural	1,000	0.082	0.001
<b>409110/1</b>	blue	1,000	0.082	0.001
<b>409110/4</b>	red	1,000	0.802	0.001

### Canes for cryovials

Made of aluminium.

Suitable for the storage of five or six 1.2 or 2.0 ml tubes in liquid nitrogen freezers such as Dewar flasks.

code	dimensions	case quantity	case weight	case volume
<b>409120</b>	290 mm	12	0.20	0.0001









### 30 ml universal polystyrene containers (25 x 90 mm)

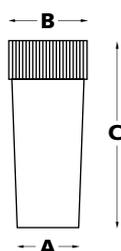
CE (IVD)

Polypropylene caps. 30 ml containers. These containers are manufactured with an innovative process resulting in one of the most resistant containers available on the market.

The standard cap colour is white, except **309602E** (blue). Other colours can be supplied (ask for quantities).

The minimum order quantity for labelled containers is 30,000 units.

mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	<b>309202</b>	polystyrene	no	400	5.50	0.038	56
3	<b>309222</b>	polystyrene individually wrapped	no	400	5.70	0.046	40
3	<b>309222.0</b>	polystyrene individually wrapped	ETHYLENE-OXIDE	400	5.70	0.046	40
New	<b>309222.1</b>	polystyrene printed label individually wrapped	no	400	5.70	0.046	40
2	<b>309201</b>	polystyrene labelled	no	400	5.50	0.038	56
4	<b>309602E</b>	polystyrene with spoon, labelled	no	400	6.00	0.038	56
New	<b>309602</b>	polystyrene with spoon	no	400	6.00	0.039	56



#### Dimensions:

A 25.1 mm; B 30.8 mm; C 92.5 mm. Maximum volume 31.7 ml. Recommended volume 25 ml.

**Withstand centrifugation up to: 7,000 g.**

In an **ASEPTIC PRODUCTION**, manufacturing and packaging methods and environment are maintained to avoid or significantly reduce bacterial contamination (bioburden).

Our **EUROTUBO®** containers are injected at a temperature of **250 °C** and are automatically connected to the assembling and packaging processes, without manual intervention, so as to guarantee an aseptic production.



### 30 ml universal polypropylene containers (25 x 90 mm)

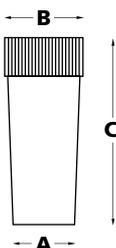
CE (IVD)

Made in Polypropylene. 30 ml containers. These containers are manufactured with an innovative process resulting in one of the most resistant containers available on the market. The screw closure can assure an almost leakproof closing system. Polypropylene cap in white colour, except **409602** (blue). Other colours can be supplied (ask for quantities).

**Autoclavable** (except the code **409602**, the polystyrene spatula must be removed before autoclaving).

The minimum order quantity for labelled containers is 30,000 units.

mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	<b>409202</b>	polypropylene	no	400	4.90	0.038	56
3	<b>409222</b>	polypropylene individually wrapped	no	400	5.10	0.046	40
2	<b>409201</b>	polypropylene printed label	no	400	4.90	0.038	56
4	<b>409602</b>	polypropylene with PS spoon	no	400	5.30	0.038	56
3	<b>409222.O</b>	polypropylene individually wrapped	ETHYLENE-OXIDE	400	5.10	0.046	40
<b>New</b>	<b>409602E</b>	polypropylene with PS spoon, labelled	no	400	5.50	0.038	56



#### Dimensions:

A 24.8 mm; B 30.8 mm; C 91.6 mm. Maximum volume 31.1 ml. Recommended volume 25 ml.

**Withstand centrifugation up to: 10.000 g.**

### 30 ml container with boric acid (25 x 90 mm)

This container includes a boric acid preservative which allows the storage and transport of the urine sample to the laboratory.

The boric acid supports the viability of the bacteria while preventing further multiplication. This preservative does not alter the characteristics of the urine and will not affect analysis. The bacteria remain viable for 24-48 hours or more, depending on the type of microorganisms.

Boric acid quantity: 0.4 gr.

Sterile by ethylene oxide.

code	description	case quantity	case weight	case volume	cases pallet
<b>409202.B</b>	polypropylene with boric acid	400	5.70	0.038	56



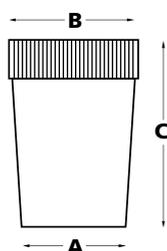


### 50 ml containers (38 x 70 mm)

CE (IVD)

With polyethylene caps. Volume: 50 ml.

code	description	case quantity	case weight	case volume	cases pallet
409802	ultra clear polypropylene	1,000	12.50	0.140	16
409852	ultra clear polypropylene with PS spoon	1,000	13.30	0.140	16
409826	ultra clear polypropylene individually wrapped	900	12.50	0.140	16



#### Dimensions:

A 35.1 mm; B 41.5 mm; C 72.3 mm.

Maximum volume 56 ml.

Recommended volume 45 ml.

### 40 ml containers (30 x 70 mm)

CE (IVD)

With polyethylene caps. Graduated.

Volume 40 ml.

code	description	case quantity	case weight	case volume	cases pallet
409402	ultra clear polypropylene	8 x 100	8.50	0.096	20
409426	ultra clear polypropylene, individually wrapped	800	10.50	0.110	16
309402	polystyrene	8 x 100	11.00	0.096	20

#### Dimensions:

A 29.1 mm; B 35.7 mm, C 69.8 mm.

Maximum volume 39 ml.

Recommended volume: 30 ml.





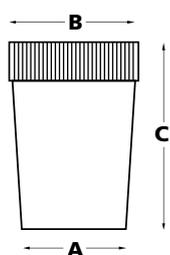
### 50 ml tamper evident containers (38 x70 mm)

CE (IVD)

Ultra clear polypropylene containers with a specially designed tamper evident ring. Polyethylene caps. Standard colour of caps: red. Volume: 50 ml.

code	description	case quantity	case weight	case volume	cases pallet
419802	ultra clear polypropylene	1,000	13.80	0.140	16
419826	ultra clear polypropylene individually wrapped	900	12.80	0.140	12

Containers are supplied capped but not fully locked so that the container is not fully sealed. Once samples (urine, milk, water...) are collected, screw the cap in a normal way and then screw again to fully position the tamper evident ring.



#### Dimensions:

A 35.1 mm; B 41.5 mm; C 72.3 mm.  
Maximum volume 56 ml.  
Recommended volume 45 ml.



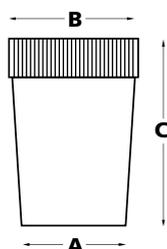


### 60 ml polystyrene containers (38 x 65 mm)

CE (IVD)

New generation of 60 ml containers with high safety closure biflex caps.  
Caps made of polyethylene.  
Standard colour of the cap: red.

	code	description	sterile	case quantity	case weight	case volume	cases pallet
New	309501	labelled polystyrene	no	600	9.20	0.082	24
	309502	polystyrene	no	600	9.10	0.082	24
	309552	polystyrene with spoon	no	600	9.30	0.082	24
	309526	polystyrene individually wrapped	STERILE A	850	12.70	0.140	16
New	309526.8	polystyrene individually wrapped, labelled	STERILE A	850	13.20	0.140	16



#### Dimensions:

A 39.3 mm; B 44.2 mm; C 66.0 mm.

Maximum volume 63 ml. Recommended volume 50 ml.

We can supply these containers labeled. Please ask quantities.  
We can supply these containers sterilised by radiation.



### Racks for containers up to 47 mm Ø

Stainless steel. 50 mm square holes. With a strong woven mesh base.

code	dimensions mm	distribution	quantity	weight	volume
I-240	315 x 210 x 45	24 (6 x 4)	1	0.325	0.0029
I-250	210 x 160 x 45	12 (4 x 3)	1	0.192	0.0015

Wide range of racks and baskets, see chapter 10.

Ask for our new versions with formaldehyde

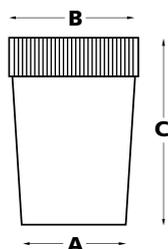


### 60 ml polypropylene containers (38 x 65 mm)

CE (IVD)

New generation of 60 ml sterile containers with high safety closure biflex caps. Specially designed for pneumatic transport of specimens. Caps made of polyethylene. Standard colour of the cap: red.

code	description	sterile	case quantity	case weight	case volume	cases pallet
409501	polypropylene labelled	no	600	9.30	0.082	24
409502	polypropylene	no	600	7.80	0.082	24
409552	polypropylene with spoon	no	600	8.40	0.082	24
409526	polypropylene individually wrapped	STERILE A	850	11.30	0.140	16
409526.0	polypropylene individually wrapped	ETHYLENE-OXIDE	850	11.30	0.140	16
409526.1	polypropylene individually wrapped, labelled	STERILE A	850	11.50	0.140	16



#### Dimensions:

A 38.8 mm; B 44.2 mm; C 66.1 mm. Maximum volume 62 ml. Recommended volume 50 ml.

We can supply these containers sterilised by radiation.

### Graduated 60 ml containers 38 x 65 mm CE (IVD)

Made of transparent polypropylene. Moulded graduation in 5 ml increments. Red polyethylene cap, biflex. For other cap colours ask the minimum order quantities. Ideal for pneumatic transport because it has a watertight closing system. Supplied capped.

code	description	sterile	case quantity	case weight	case volume	cases pallet
409502G	polypropylene	no	600	7.80	0.082	24
409526G	polypropylene, individually wrapped	STERILE A	850	11.30	0.140	16

#### Dimensions:

A 38.8 mm; B 44.2 mm; C 66.1 mm. Maximum volume: 62 ml. Recommended volume: 50 ml.





### 125 ml containers (57 x 73 mm) with spoon

CE (IVD)

Ultra clear polypropylene containers with polyethylene leak proof screw caps. Spatula made of Polystyrene. Graduated in 100 ml increments. Frosted panel on side for easy writing. Standard colour of the cap: red.

code	description	sterile	case quantity	case weight	case volume	cases pallet
409752	polypropylene with PS spoon	no	475	8.20	0.140	16
409756	polypropylene individually wrapped with PS spoon	no	400	7.70	0.140	16
409756.B	polypropylene individually wrapped with PS spoon	RADIATION	400	7.70	0.140	16

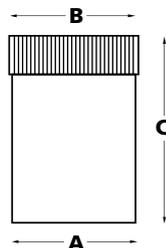
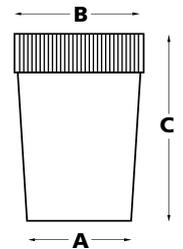
#### Dimensions:

A 56.3 mm; B 62.1 mm; C 74.3 mm.

Maximum volume 138 ml.

Recommended volume 110 ml.

These containers can be supplied sterilized by radiation.



#### Dimensions:

A 58 mm; B 62 mm; C 69 mm.



### 125 ml screw cap containers (58 x 69 mm)

Manufactured in polystyrene or polypropylene depending on the model. Cap manufactured in polyethylene.

Total volume 160 ml.

Code 309752 is supplied with a polystyrene spoon inside.

Code 409700 is sterile by radiation.

mod.	code	description	sterile	case quantity	case weight	case volume
1	309752	polystyrene white cap and spoon	no	360	13.45	0.108
2	409700	polypropylene red cap	RADIATION	360	11.58	0.108

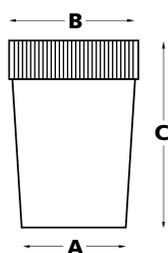


### 125 ml containers (57 x 73 mm)

CE (IVD)

Ultra clear polypropylene containers with polyethylene leak proof screw caps. Moulded graduation in 20 ml increments up to 100 ml. Frosted panel on side for easy writing. Standard colour of the cap: red.

code	description	sterile	case quantity	case weight	case volume	cases pallet
409701	polypropylene labelled	no	475	8.10	0.140	16
409702	polypropylene	no	475	8.00	0.140	16
409726	polypropylene individually wrapped	STERILE A	400	7.60	0.140	16
409726.G	polypropylene individually wrapped	RADIATION	400	7.60	0.140	16
409746.S	polypropylene individually wrapped, labelled	STERILE A	400	7.75	0.140	16 <span style="color: yellow;">New</span>



#### Dimensions:

A 56,3 mm; B 62,1 mm; C 74,3 mm.  
Maximum volume 148 ml.  
Recommended volume 110 ml.



### 125 ml containers uncapped (57 x 73) CE (IVD)

With the same characteristics as the previous model, but these containers are supplied uncapped. Containers and caps are supplied in the same box.

code	description	case quantity	case weight	case volume	cases pallet
409703	polypropylene uncapped	620	10.50	0.082	24



### Blue containers (60 and 125 ml)

CE (IVD)

With the same characteristics as codes **409702** (p. 159) and **409502** (p. 157) but in blue colour (containers and cap). Ideal for photosensitive samples or when it is required not to show the content. Ask for other labeling or for not labeled containers to our commercial department.

Minimum order quantity: 30,000 units.

code	description	case quantity	case weight	case volume	cases pallet
<b>409511</b>	60 ml container white label	600	8.00	0.082	24
<b>409711</b>	150 ml container white label	475	8.20	0.140	16

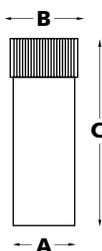


### 200 ml graduated container (57 x 116)

CE (IVD)

Containers made of ultra clear polypropylene and caps made of polyethylene. Those containers have double moulded-in graduations, (in 20 ml increments up to 200 ml and in 1 oz increments up to 7 oz), and feature a frosted panel on their side for easy writing. Standard colour of caps: red.

code	max. capacity	case quantity	case weight	case volume	cases pallet
<b>409902</b>	240 ml	275	7.10	0.140	16



#### Dimensions:

A 56.5 mm; B 62.2 mm; C 115.5 mm;

Maximum volume 240 ml;

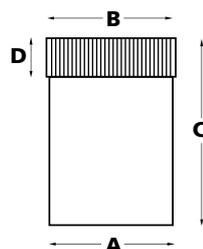
Recommended volume 210 ml.



### 200 ml screw cap container (58 x 95 mm)

Manufactured in polystyrene, cap made of white polyethylene. Total volume: 220 ml.

code	max. capacity	case quantity	case weight	case volume	cases pallet
<b>309903</b>	220 ml	240	9.6	0.108	16



#### Dimensions:

A 58 mm; B 62 mm; C 95 mm; D 22 mm.



### 120 ml screw cap container (57 x 73 mm)

CE (IVD)

Designed to use with vacuum tubes.

Manufactured in transparent Polypropylene.

It allows a clean transfer of the urine from the container to the vacuum tube.

Leakproof cap made of yellow polyethylene, with an internal obturating ring. It includes a cannula with a needle inside protected by a rubber cap and a plastic suction nozzle.

The cap features a label that seals the cannula in order to prevent contact with the collection needle.

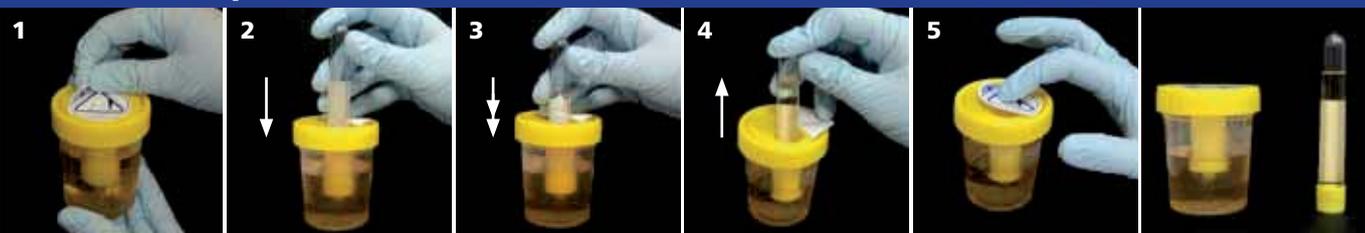
The container features a wide marking area for sample identification and a graduation that helps to quantify the sample when uncapped. Once capped, the graduation is inaccurate as the volume is altered by the cannula.

Maximum volume with cap: 120 ml, recommended volume: 60 ml.

Presented in sterile and non sterile version, supplied in bulk or bag unit.

code	presentation	sterile	case quantity	case weight	case volume	cases pallet
<b>Container</b>						
408702	in bulk	no	475	8.26	0.14	16
408726	individually wrapped	no	350	6.65	0.14	16
408702.G	in bulk	RADIATION	250	5.05	0.08	24
408726.G	individually wrapped	RADIATION	350	6.65	0.14	16
<b>Container and vacuum tube</b>						
408720	individually wrapped, plain tube	RADIATION	250	8.19	0.10	20
408721	individually wrapped, tube with boric acid	RADIATION	250	8.21	0.10	20

### Process of sample transfer:



1. Remove the cap label .
2. Place evacuated tube into cavity on cap, stopper down.
3. Advance the tube over puncture point to pierce stopper. The urine tube will be filled. Repeat if another tube is to be collected.
4. Hold tube in position until filled and remove tube from device.
5. Replace label over hole and reseal.

This is a completely hygienic and safe system.

It prevents sample loss and avoid the contamination of the sample, the user or the work environment.

## Urine container set

CE (IVD)

Urine collection system designed to save space in the lab, and to be used when urine samples need to be collected into tubes for a subsequent centrifugation. Designed to be user friendly.

The patient urinates in the 150 ml plastic cup and then pours the urine into the tube. Once the tube is filled up, the patient caps it and delivers the sample to the lab, where the health assistant will fill in the label with the required data. The patient just has to follow the hospital or laboratory instructions. **Manufactured under aseptic conditions.** There are several versions and custom-designed versions can be manufactured.



Easy pouring



We can manufacture sets with boric acid.

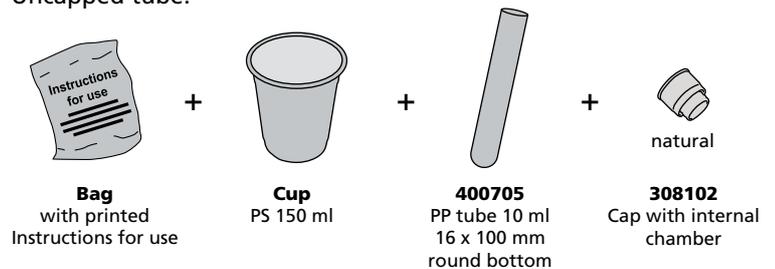


New bag with instructions in spanish, catalan, euskera and galician.

## Components of each set:

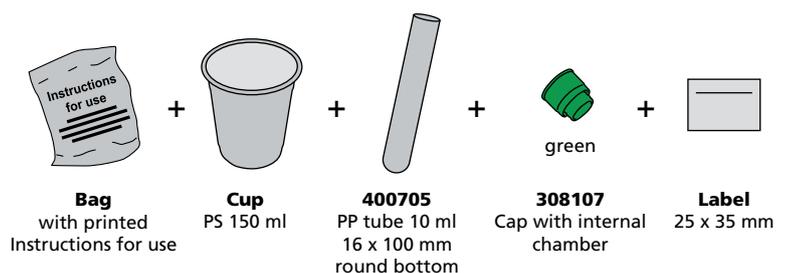
code	case quantity	case weight	case volume
<b>309324.E3</b>	300	4.50	0.140

Uncapped tube.



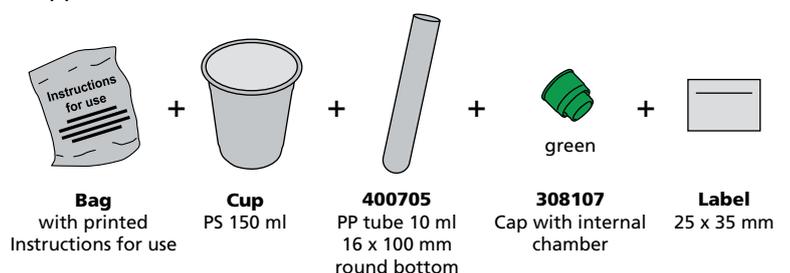
code	case quantity	case weight	case volume
<b>309316.E</b>	300	4.50	0.140

Uncapped and unlabelled tube.



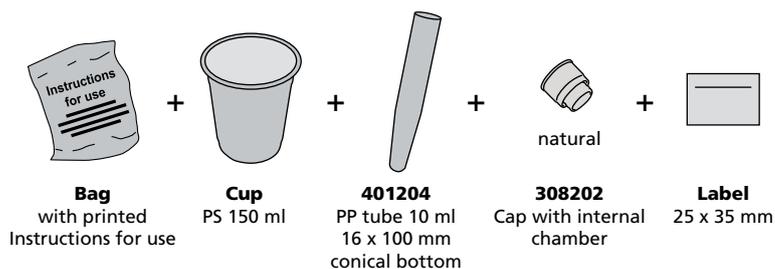
code	case quantity	case weight	case volume
<b>309316</b>	300	4.50	0.140

Capped and labelled.



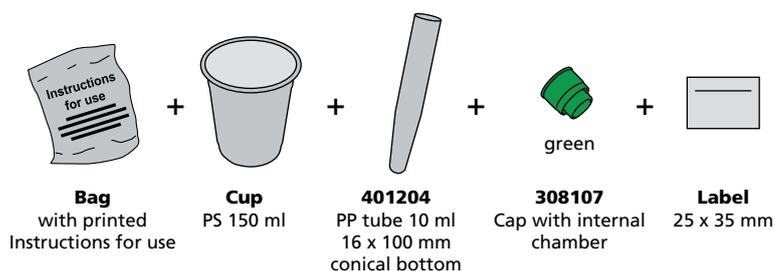
code	case quantity	case weight	case volume
<b>309324.E</b>	300	4.70	0.140

Uncapped and unlabelled tube.



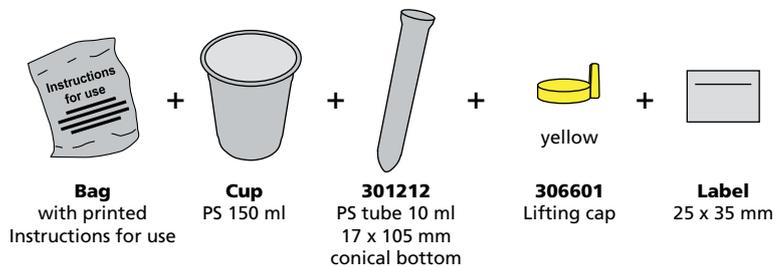
code	case quantity	case weight	case volume
<b>309324</b>	300	4.70	0.140

Capped and labelled tube.



code	case quantity	case weight	case volume
<b>309318</b>	300	4.70	0.140

Capped and labelled tube.



## Disposable cups

Disposable sample cups, for general sample collection. Cups are supplied stacked.

code	volume ml	material	mouth Ø x height	case quantity	case weight	case volume
<b>202248</b>	100	polypropylene	57.5 x 62	50 x 100	9.99	0.081
<b>202317</b>	150	polystyrene	70 x 70	30 x 100	8.32	0.080





### Security screw cap containers

CE (IVD)

Ultra clear polypropylene containers with yellow polyethylene cap.

They have moulded graduations in ml.

Supplied uncapped with the caps and containers in the same box.

Ideal for the pneumatic transport of liquid samples, including those that have phormaline, because they have a watertight closure. The cap, with an innovative inner shape, has a double closure. (see the figure).

The base and the cap are ribbed so the handling with gloves is comfortable and reliable.

There is a ring in the upper part of the body, in order to avoid the dripping in case of liquid decanting.

For other cap colours (blue, orange, magenta), ask for the minimum order quantities.

mod.	code	grad. volume ml.	total volume ml	mouth Ø mm	height mm	case quantity	case weight	case volume
1	<b>202840</b>	20	26	34	43	1,000	7.20	0.102
2	<b>202841</b>	40	50	45	43	600	8.75	0.105
3	<b>202842</b>	60	76	45	60	500	8.20	0.105
4	<b>202843</b>	80	92	45	75	400	7.80	0.105
5	<b>202848</b>	90	108	53	68	300	6.35	0.105
6	<b>202844</b>	120	146	53	78	300	7.70	0.105



### EUROTUBO® Leak proof screw cap containers

CE (IVD)

Specially designed for histology, they are provided with double internal security closure. Manufactured in translucent polypropylene with polyethylene ribbed yellow cap. They have moulded graduations.

Their leakproof closure makes them ideal for liquid or solid sample storage.

They meet the standard UNE-EN 14401:2005 Rigid plastic containers. Methods to test the effectiveness of closures. Supplied uncapped.

**Find more information about this product in pag. 87.**



### Cylindrical container graduated up to 2 litres with handle

CE (IVD)

High density polyethylene container and cap. Ideal for 24 hour urine collection and any other liquid samples. We recommend references with white and ribbed cap, that features a pharmaceutical grade joint, which eliminates the need for an insert plug, allows a better handling and provides a watertight seal.

Containers are graduated in 50 ml increments up to 2 l. Include a convenient handle for an easy single-handed use.

Base diameter: 108 mm.

Height, cap included: 290 mm.

Cases per pallet: 16.

Code **408001.1** is individually wrapped by retractile system.

Ask for other versions cap colours, capped containers and sterile containers.

code	body colour	cap description	presentation	individually wrapped	sterile	internal mouth Ø mm	case quantity	case weight	case volume
<b>408001</b>	natural	white, with joint	unscrewed	no	no	65	34	7.00	0.140
<b>408001.0</b>	natural	white, with joint	screwed	yes	<b>RADIATION</b>	65	34	7.00	0.140
<b>408001-86</b>	natural	black + plug	unscrewed	no	no	86	33	7.00	0.140
<b>408001OBT</b>	natural	black + plug	unscrewed	no	no	66.5	33	7.00	0.140
<b>408001O/T</b>	natural	black + plug	screwed	no	no	66.5	33	7.00	0.140
<b>408001.1</b>	natural	white, with joint	screwed	yes	no	65	34	7.00	0.140
<b>408001.2</b>	brown	black + plug	unscrewed	no	no	66.5	33	7.00	0.140

NEW



### Rectangular containers, graduated up to 2 litres

CE (IVD)

Containers and caps made of high density polyethylene.

Ideal for 24 hour urine collection and other liquid samples.

Containers are in translucent colours and moulded graduation in 50 ml increments up to 2 l.

Ergonomically designed for single-handed use with a lateral tap of 66 mm length Height, cap included: 253 mm.

Base: 84 x 125 mm.

Cases per pallet: 16.

We recommend models with white cap, because the cap features a pharmaceutical grade joint, which eliminates the need of a plug, allows a better handling and provides a leakproof closure.

Individually wrapped models are supplied capped.

Ask for other versions: colour (both, cap or body), and sterile containers.

code	body colour	cap description	presentation	individually wrapped	sterile	internal mouth Ø mm	case quantity	case weight	case volume
407001	natural	white, with joint	unscrewed	no	no	67.8	43	6.00	0.140
407001/T	natural	white, with joint	screwed	no	no	67.8	43	6.90	0.140
407008	natural	white, with joint	screwed	yes	no	67.8	43	6.90	0.140
407008.O	natural	white, with joint	screwed	yes	RADIATION	67.8	43	6.90	0.140
407001OBT	natural	black + plug	unscrewed	no	no	67.8	41	6.70	0.140
407001O/T	natural	black + plug	screwed	no	no	67.8	41	6.70	0.140
407008OBT	natural	black + plug	screwed	yes	no	67.8	41	6.40	0.140
407003	brown	white, with joint	unscrewed	no	no	67.8	43	6.00	0.140



### Squared containers, graduated up to 2.7 litres

CE (IVD)

High density polyethylene container and cap. Ideal for 24 hour urine collection and other liquid samples.

The ribbed cap features a pharmaceutical grade joint, which eliminates the need for an insert plug, allows a better handling and provides a watertight seal.

Containers are graduated in 50 ml increments up to 2.7 l.

Ergonomically designed for single-handed use. Stackable.

A ring on the neck of the containers avoids dripping when pouring.

Base: 115 x 115 mm

Height, cap excluded: 249 mm.

Individually wrapped models are supplied capped.

Cases per pallet: 12.

code	body colour	cap description	presentation	individually wrapped	sterile	internal mouth Ø mm	case quantity	case weight	case volume
407005	natural	white, with joint	unscrewed	no	no	65	34	5.70	0.152
407005/T	natural	white, with joint	screwed	no	no	65	34	5.70	0.152
407005.0	natural	white, with joint	screwed	yes	RADIATION	65	34	5.70	0.152
407005.1	natural	white, with joint	screwed	yes	no	65	34	5.70	0.152
407006	brown	white, with joint	unscrewed	no	no	65	34	5.70	0.152
407006/T	brown	white, with joint	screwed	no	no	65	34	5.70	0.152



### Security screw cap containers

CE (MDD)

Natural colour high density polyethylene containers. Capacities: 30, 60 and 125 ml. Ideal for liquids.

60 and 125 ml containers: Bottles with screw cap, leakproof closure with child-proof system and split seal.

The cap is compound by two pieces that turn around themselves avoiding the cap to be opened, working as a security closure avoiding the accidental manipulation. To open the cap push it down following the figure on the cap. The sealed caps need to be unscrewed to break the seal, showing that it has not been manipulated. 30 ml container has a security seal, not the child-proof system closure.

Pallet cases quantity: 16.

code	cap colour	body colour	height mm	Ø base mm	body weight g	case quantity	case weight	case volume
<b>1. Capacity: 30 ml. Ø Pilfer mouth 25, security closure standard system</b>								
444603202	white	natural	69	31	6.2	1,100	11.32	0.110
New 444603204	white	white	69	31	6.2	600	10.00	0.078
<b>2. Capacity: 60 ml. Ø Pilfer mouth 28, security closure childproof system</b>								
444603300	white	natural	93.7	37.61	9.5	600	8.00	0.110
New 444602903	white	white	93.7	37.61	9.5	600	8.00	0.110
444602901	blue	natural	87.5	37.61	9.5	600	7.50	0.110
444602801	blue	white	87.5	37.61	9.5	600	7.50	0.110
<b>3. Capacity: 125 ml. Ø Pilfer mouth 28, security closure childproof system</b>								
444603402	white	natural	114.8	48	13.6	300	5.15	0.110

We can supply other colours if required.



See chapter 10.  
Sample storage and Cryogenics



### Medicine cups

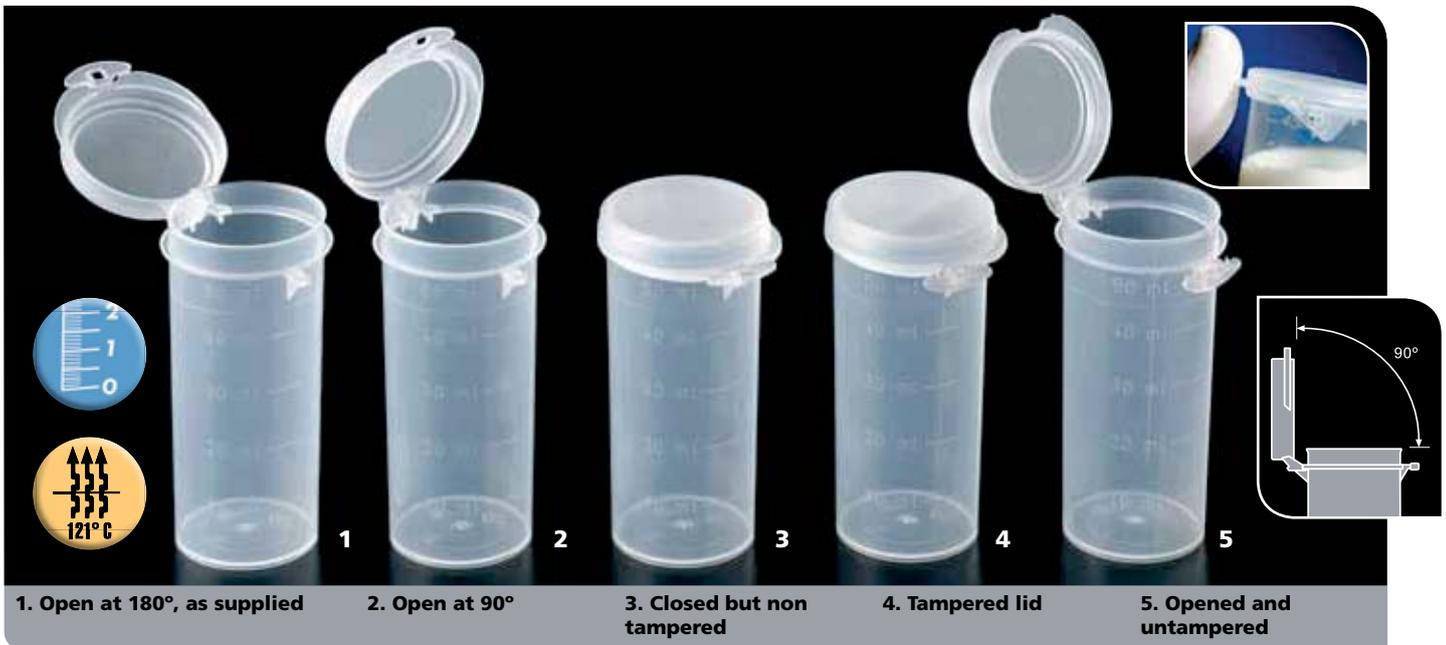
Ultra clear polypropylene cup with cover in natural polyethylene, graduated up to 25 ml.

Dimensions:

Ø mouth: 35 mm, Ø base: 27 mm, height 40 mm.

The cups are supplied bagged in stacks of 100 units.

code	description	case quantity	case weight	case volume
430130	graduated cup	60 x 100	13.00	0.065
430100	push cover	3 x 2,000	7.20	0.046



### Hinged lid container

Specially designed for **milk**, it is also suitable for other liquid or solid samples. Recommended for its use with **FOSS® and DELTA® analytical systems**, among others. Made of **autoclavable** polypropylene. Tamper evident Lid, attached to the body by means of a hinge. The lid is conceived to maintain 90° after its opening, enabling this pot to be used with just one hand. It has a frosted squared surface for identification. Excellent mechanical and chemical resistance.



Ask for coloured versions

### Hinged lid container, 50 ml

CE (IVD)

Graduated up to 50 ml.  
Code **410046** is supplied uncapped.  
Code **410056** is supplied uncapped inside an individual bag.

code	description	case quantity	case weight	case volume	cases pallet
<b>410046</b>	50 ml container	800	7.5	0.14	20
<b>410056</b>	50 ml container individually wrapped	800	8.5	0.14	20

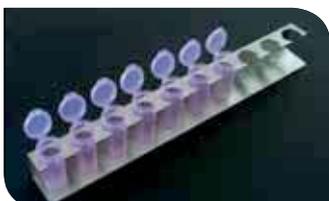


### Hinged lid container, 45 ml

CE (IVD)

Graduated up to 45 ml.  
Code **410045** is supplied uncapped.  
Code **410050** is supplied uncapped inside an individual bag.

code	description	case quantity	case weight	case volume	cases pallet
<b>410045</b>	45 ml container	900	8.6	0.14	20
<b>410050</b>	45 ml container individually wrapped	800	7.7	0.14	20



We can manufacture special racks in aluminium or stainless steel under request.



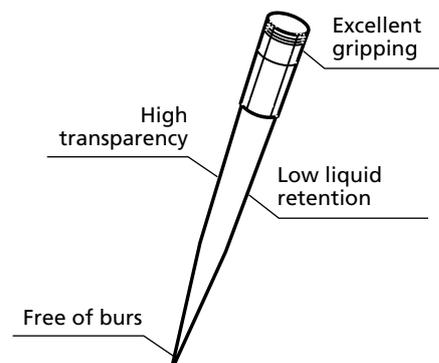


### Tips for automatic pipettes

DELTALAB tips:

The perfect aid for a **safe, easy, quick and accurate** liquid handling.

- Low retention
- Autoclave resistant
- Good suction
- High transparency
- Uniformity
- Free of metals
- Traceability



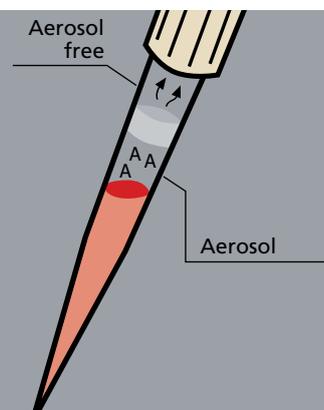
### Tips with filter

The filter tip avoids aerosols and prevents pipette and / or sample contamination.

#### STANDARD

1. It **purifies the air** that goes through the filter, **removing aerosol and contaminants**
2. It partially **absorbs the sample** in case of overaspiration (10-20%)
3. It **protects the sample** from an accidentally **non sterile pipette**

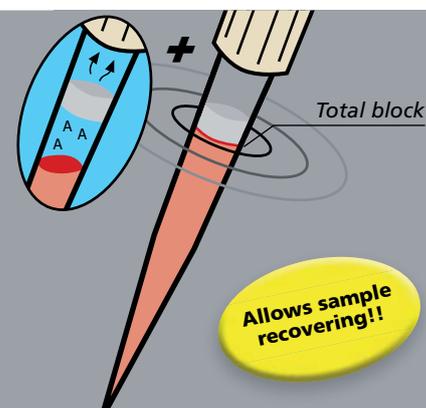
HYDROPHOBIC POLYPROPYLENE



#### EXTRA

1. It **purifies the air** that goes through the filter, **removing aerosol and contaminants**
2. In case of overaspiration, **the filter compacts** when touching the **liquid**, and stops the pipetting
3. It **protects the sample** from an accidentally **non sterile pipette**

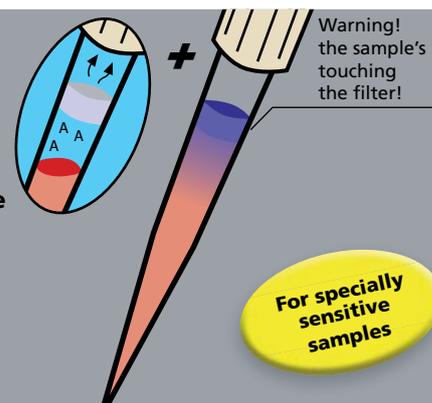
HYDROPHOBIC POLYPROPYLENE



#### X-COLOUR

1. It **purifies the air** that goes through the filter, **removing aerosol and contaminants**
2. It partially **absorbs the liquid** in case of **overaspiration** (5-10%)
3. **Visual warning: it gets blue** when getting in contact with the sample
4. It **protects the sample** from an accidentally **non sterile pipette**

HYDROPHILIC POLYPROPYLENE



## Our range

Our range of tips meet almost every liquid handling need, as they are available in a wide scope of options:

- With or without filter in bulk or rack (with hinged, sliding, or free lid).
- Sterile, DNase and RNase free, with Standard, Extra or X-Colour filter, in rack.
- Sterile, without filter, packed in individual bag.

Our racks are made of **autoclavable** polypropylene, and have been developed according to an identifying colour code: racks with tips without filter are blue or translucent colour, depending on the code; racks with filter tips are red colour; racks with Extra filter tips are white; and those with X-Colour filter are marble.

\*Excepting codes **327-26** (page 179) and **200076RF** (page 182), in blue and translucent colour respectively.



### 0.1 - 10 µl tip

Natural colour universal crystal tip, graduated. Gilson® type. El Rack made of **autoclavable** polypropylene up to 121° C. Racks with transparent lid and base in different colours:  
 Rack without filter: blue base.  
 STANDARD filter: red base.  
 EXTRA FILTER: white base.  
 X-COLOUR filter: base in marble colour.

#### Suitable (not exclusive)

Gilson®, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, HTL®.

code	description	sterile	case quantity	case weight	case volume
● <b>200024</b>	tips in bulk	no	20 x 1,000	3.63	0.023
● <b>199084RC</b>	96 tips rack	no	10 x 96	1.92	0.009
● <b>326-19</b>	filter tips in bulk	no	20 x 1,000	3.7	0.023
●●● <b>327-19</b>	96 tips rack filter	RADIATION	10 x 96	1.8	0.009
●●● <b>327-19X</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	1.8	0.009
●●● <b>327-19B</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	1.8	0.009

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free





### 0.1 - 10 µl tip

Natural colour universal crystal tip, graduated. Gilson® type.  
Long shape, perfect to pipette samples in deep vessels.

#### Suitable (not exclusive)

Gilson®, Socorex®, Eppendorf®, Biohit®, Nichiryo®, Finnpiquette®, Dsg®, Elkay®, Genex®, Jencons®, HTL®.

Rack made of **autoclavable** polypropylene up to 121° C.

Racks with transparent lid and base in different colours:

Rack without filter: blue base.

STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
● <b>301-01</b>	tips in bulk	no	15 x 1,000	3.5	0.026
● <b>301-01R</b>	96 tips rack	no	10 x 96	1.7	0.009
● <b>301-01F</b>	filter tips in bulk	no	15 x 1,000	3.9	0.016
●●● <b>301-01FR</b>	96 tips rack filter	RADIATION	10 x 96	1.8	0.009
●●● <b>301-01FRX</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	1.8	0.009
●●● <b>301-01FRB</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	1.8	0.009

Tips in bulk: minimum unit sale: 1 bag.



### 0.5 - 10 µl tip

Natural colour universal crystal tip, bevelled. Eppendorf® type.

#### Suitable (not exclusive)

Eppendorf®, Gilson®, Biohit®, Brand®, Dsg®, Elkay®, Finnpiquette®, Jencons®, Nichiryo®, Socorex®, HTL®.

Rack made of **autoclavable** polypropylene up to 121° C.

Racks with transparent lid and base in different colours:

Rack without filter: blue base;

STANDARD filter: red base;

EXTRA filter: white base;

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
● <b>301-11</b>	filter tips in bulk	no	25 x 1,000	4.9	0.048
● <b>301-10</b>	96 tips rack	no	10 x 96	1.8	0.009
●●● <b>301-09</b>	96 tips rack	RADIATION	10 x 96	1.8	0.009
● <b>326-37</b>	filter tips in bulk	no	25 x 1,000	5	0.048
●●● <b>327-37R</b>	96 tips rack filter	RADIATION	10 x 96	1.8	0.009
●●● <b>327-37RX</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	1.8	0.009
●●● <b>327-37RB</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	1.8	0.009

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

● RNase and DNase free

● Metal free

● Pyrogen free

**0.5 - 10 µl tip**

Natural colour universal ultracapilar Eppendorf® tip.  
Suitable for gel use.

**Suitable (not exclusive)**

Eppendorf®, Socorex®, Nichiryo®, Oxford-Benchmark®.

Rack made of **autoclavable** polypropylene up to 121° C.  
Transparent lid and blue base.

The rack contains 204 tips distributed in 12 x17.

code	description	sterile	case quantity	case weight	case volume
● <b>327-13</b>	204 tips rack filter	<b>RADIATION</b>	5 x 204	0.80	0.006



Socorex® dispensers:  
please contact our commercial  
department.

**2 - 20 µl tip**

Natural colour universal tip. Eppendorf® type.  
Available without filter (2-200µl), and with filter at 100µl.  
See our codes **200072** and **327-33**.

**Suitable (not exclusive)**

Eppendorf®, Biohit®, Finnpiquette®, Gilson®, Socorex®, Brand®, HTL®.

Rack made of **autoclavable** polypropylene up to 121° C.

Racks with transparent lid and base in different colours:

Rack without filter: blue base.

STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
● <b>200010F</b>	filter tips in bulk	no	25 x 1,000	9.6	0.068
●●● <b>200010FR</b>	96 tips rack filter	<b>RADIATION</b>	10 x 96	1.9	0.013
●●● <b>200010FRX</b>	96 tips rack EXTRA filter	<b>RADIATION</b>	10 x 96	1.9	0.013
●●● <b>200010FRB</b>	96 tips rack X-COLOUR filter	<b>RADIATION</b>	10 x 96	1.9	0.013

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

● RNase and DNase free

● Metal free

● Pyrogen free





## 2 - 30 µl tip

Natural colour universal filter tip, bevelled.  
Gilson® type.

### Suitable (not exclusive)

Gilson® P20 P100 P200, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Socorex®, Nichiryo®, HTL®, etc.

Rack made of **autoclavable** polypropylene up to 121° C.

Racks with transparent lid and base in different colours:

Rack with STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
● <b>327-36</b>	filter tips in bulk	no	25 x 1,000	9.4	0.072
●●● <b>327-36R</b>	96 tips rack filter	RADIATION	10 x 96	2.1	0.010
●●● <b>327-36RX</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	2.1	0.010
●●● <b>327-36RB</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2.1	0.010

Tips in bulk: minimum unit sale: 1 bag.



## 2 - 100 µl tip

Natural colour universal filter tip, bevelled.  
Gilson® type.

### Suitable (not exclusive)

Gilson® P100 P200, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, HTL®, etc.

Rack made of **autoclavable** polypropylene up to 121° C.

Racks with transparent lid and base in different colours:

Rack with STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
● <b>327-23</b>	filter tips in bulk	no	25 x 1,000	9.4	0.072
●●● <b>327-24</b>	96 tips rack filter	RADIATION	10 x 96	2	0.010
●●● <b>327-24X</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	2	0.010
●●● <b>327-24B</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2	0.010

Tips in bulk: minimum unit sale: 1 bag.

#### Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free

## 2 - 160 µl tip

Natural colour universal filter tip, bevelled. Gilson® type. Identical tip as code 200078, but having the filter placed up to 160 µl.

### Suitable (not exclusive)

Gilson® P100 P200, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Socorex®, Nichiryo®, HTL®, etc.

Rack made of **autoclavable** polypropylene up to 121° C.

Racks with transparent lid and base in different colours:

Rack with STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
●●● <b>327-15</b>	96 tips rack filter	<b>RADIATION</b>	10 x 96	2	0.010
●●● <b>327-15X</b>	96 tips rack EXTRA filter	<b>RADIATION</b>	10 x 96	2	0.010
●●● <b>327-15B</b>	96 tips rack X-COLOUR filter	<b>RADIATION</b>	10 x 96	2	0.010



## 2 - 200 µl tip

Natural colour universal tip, bevelled.

Gilson type®.

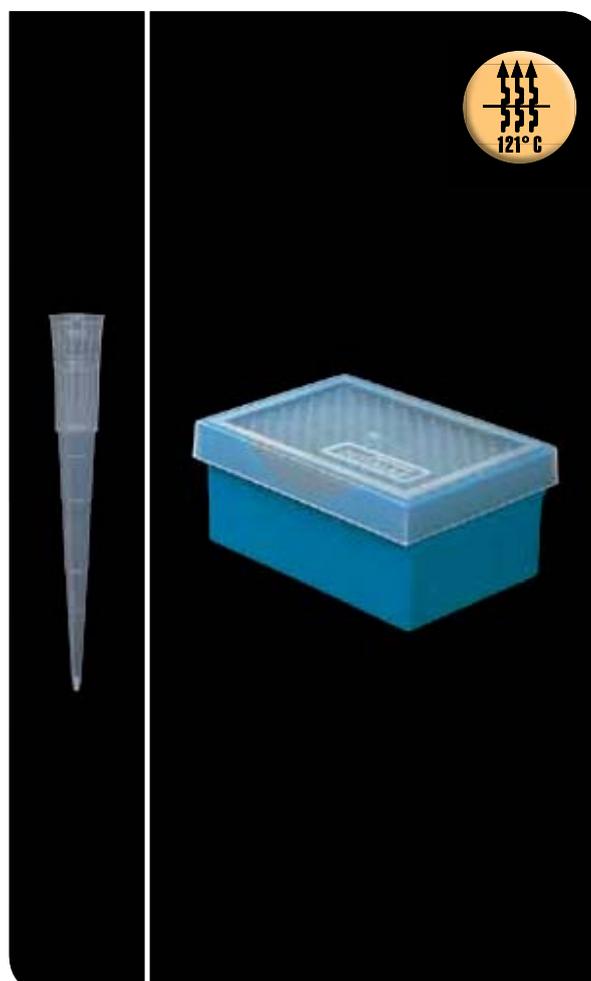
### Suitable (not exclusive)

Gilson® P20 P100 P200, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Socorex®, Nichiryo®, HTL®, etc.

Rack made of **autoclavable** polypropylene up to 121° C; with transparent lid and blue base.

code	description	sterile	case quantity	case weight	case volume
● <b>200078</b>	tips in bulk	no	25 x 1,000	9.2	0.072
● <b>199078RC</b>	96 tips rack	no	10 x 96	2	0.010
●●● <b>199078N</b>	96 tips rack	<b>RADIATION</b>	10 x 96	2	0.010

Tips in bulk: minimum unit sale: 1 bag.



Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



## 2 - 200 (100) µl tip

Natural colour universal tip. Eppendorf® type.

### Suitable (not exclusive)

Eppendorf®, Gilson®, Brand®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Kartell®, Nichiryo®, Socorex®, HTL®.

Rack made of **autoclavable** (up to 121 °C) polypropylene.

Racks with transparent lid and base in different colours:

Rack without filter: blue base.

STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
<b>2 - 200 µl tip</b>					
● 200072	tips in bulk	no	25 x 1,000	9.5	0.072
● 199014RC	96 tips rack	no	10 x 96	1.9	0.009
●●● 199014N	96 tips rack	RADIATION	10 x 96	1.9	0.009

### 2 - 100 µl filter tip

● 327-33	tips in bulk	no	25 x 1,000	9.5	0.072
●●● 327-33R	96 tips rack filter	RADIATION	10 x 96	2.1	0.009
●●● 327-33RX	96 tips rack EXTRA filter	RADIATION	10 x 96	2.1	0.009
●●● 327-33RB	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2.1	0.009

Tips in bulk: minimum unit sale: 1 bag.



## 2 - 200 µl tip

Universal tip, bevelled. Gilson® type. Tips with filter: natural colour. Tips without filter: yellow colour.

### Suitable (not exclusive)

Gilson®, Eppendorf®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, HTL®, Socorex® Akura.

Rack made of **autoclavable** (up to 121°C) polypropylene.

Racks with transparent lid and base in different colours:

Rack without filter: blue base.

STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
<b>Natural colour:</b>					
● 327-34	filter tips in bulk	no	25 x 1,000	9.4	0.072
●●● 327-34R	96 tips rack filter	RADIATION	10 x 96	2	0.010
●●● 327-34RX	96 tips rack EXTRA filter	RADIATION	10 x 96	2	0.010
●●● 327-34RB	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2	0.010

### Yellow colour:

● 200016	tips in bulk	no	25 x 1,000	9,4	0.072
● 200016B	single tips individually wrapped	RADIATION	200	0,19	0.002
● 200016R	96 tips rack	no	10 x 96	2	0.010

Tips in bulk: minimum unit sale: 1 bag.

### Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free

## 1 - 200 µl tip

Universal natural colour tip with collar for gel.

### Suitable (not exclusive)

Pipetman®, Eppendorf®, Titertek®, Biohit®, Socorex®, Nichiryo®, Costar Corning®, Oxford®, Rainin®, Finnpipette®.

Translucent rack made of **autoclavable** polypropylene with hinged lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200079</b>	tips in bulk	no	10 x 1,000	9.2	0.073
●●● <b>200079R</b>	96 tips rack	RADIATION	10 x 96	4.5	0.048
●●● <b>200079F</b>	96 tips rack filter 1-20 µl	RADIATION	10 x 96	4.5	0.048
●●● <b>200079FS</b>	96 tips rack filter 1-100 µl	RADIATION	10 x 96	4.5	0.048

Tips in bulk: minimum unit sale: 1 bag.



## 1 - 200 µl tip

Universal natural colour tip with 91 mm length.

### Suitable (not exclusive)

Pipetman®, Eppendorf®, Nichiryo®, Costar Corning®, Oxford®, Volac®, Socorex®, Titertek®, SMI®, Rainin®, Finnpipette®, etc.

Rack made of polypropylene **autoclavable** up to 121°C. Transparent lid and blue base, with 204 tips in 12 x 17 distribution.

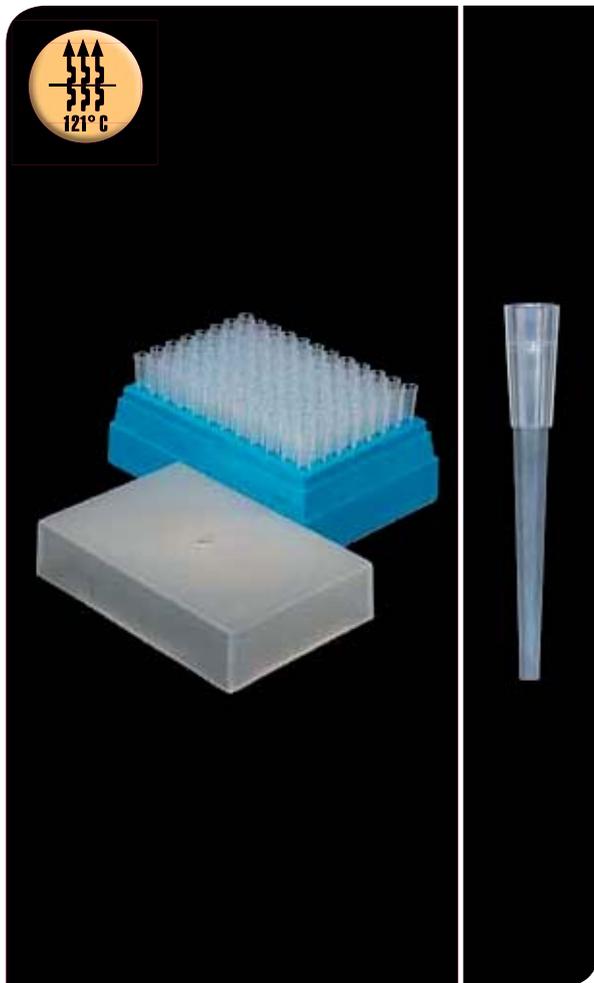
code	description	sterile	case quantity	case weight	case volume
● <b>200026</b>	tips in bulk	no	5 x 1,000	3.48	0.050
●●● <b>327-26</b>	204 tips rack filter	RADIATION	8 x 204	2.02	0.012

Tips in bulk: minimum unit sale: 1 bag.



Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



### 1 - 200 µl tip

Natural colour universal tip. Designed to work with viscous fluids like glycerol or thick tissue homogenates. Suitable also for fragile cellular structures, minimizing the risk of tearing or rupture.

#### Suitable (not exclusive)

Eppendorf®, Socorex®, Nichiryo®, Finnpiquette®, Biohit®, Oxford®, Pipetman®, Rainin®, Costar Corning®, Volac®.

Rack made of polypropylene **autoclavable** up to 121° C. Transparent lid and blue base.

code	description	sterile	case quantity	case weight	case volume
● <b>327-40</b>	tips in bulk	no	10 x 1,000	4.24	0.031
● <b>327-40RC</b>	96 tips rack filter	no	10 x 96	2	0.001

Tips in bulk: minimum unit sale: 1 bag.



### 5 - 200 µl tip

Eppendorf® universal tip.

#### Suitable (not exclusive)

Eppendorf®, Gilson®, Brand®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, Socorex®, HTL®.

Rack made of **autoclavable** polypropylene up to 121°C. Transparent lid and blue base.

code	description	sterile	case quantity	case weight	case volume
● <b>200009</b>	tips in bulk	no	25 x 1,000	9.5	0.072
● <b>200009B</b>	single tips individually wrapped	RADIATION	200	0.19	0.002
● <b>200009R</b>	96 tips rack	no	10 x 96	1.98	0.009

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free

## 5 - 200 µl tip

Yellow universal tip, Gilson® type.

### Suitable (not exclusive)

Gilson®, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, HTL®.

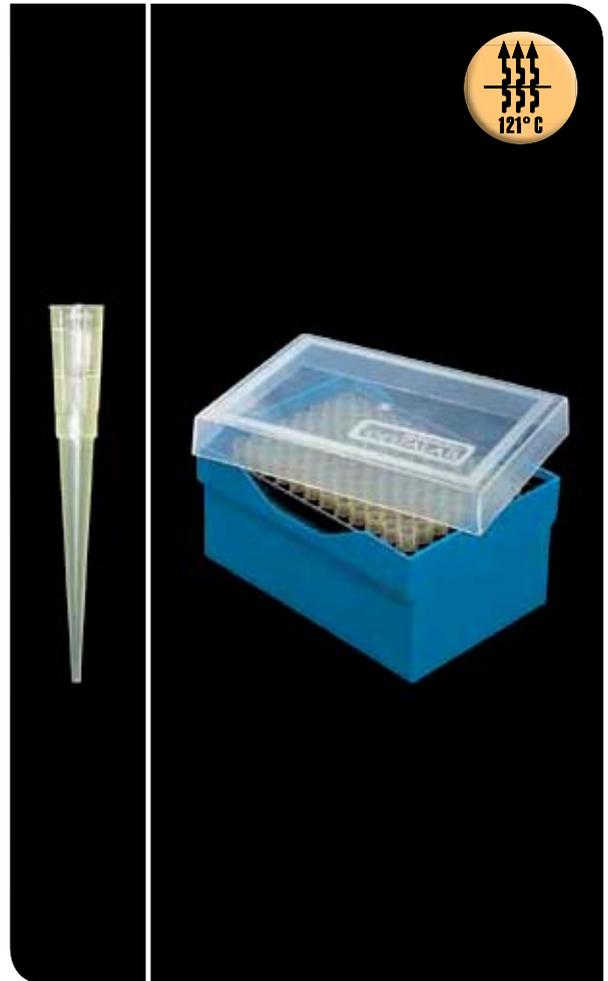
Rack made of polypropylene **autoclavable** up to 121°C.  
Transparent lid and blue base.

code	description	sterile	case quantity	case weight	case volume
● <b>199083</b>	tips in bulk	no	25 x 1,000	9.4	0.072
● <b>199620</b>	96 tips rack	no	10 x 96	1.7	0.009

Tips in bulk: minimum unit sale: 1 bag.



Socorex® pipettes:  
please contact our commercial  
department.



## 2 - 300 µl tip

Natural colour universal tip. Biohit® type.

### Suitable (not exclusive)

Gilson® P200, Finnpiquette® (old model), Labsystems®, etc...

Rack made of **autoclavable** polypropylene up to 121° C.  
Transparent lid and blue base.

code	description	sterile	case quantity	case weight	case volume
● <b>200074</b>	tips in bulk	no	24 x 1,000	8.3	0.072
● <b>199076RC</b>	96 tips rack	no	10 x 96	1.8	0.010

Tips in bulk: minimum unit sale: 1 bag.



Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



### 2 - 200 µl tip

Yellow universal tip, with a 50 µl margin to prevent any accidental overaspiration. Filter tip is neutral instead of yellow. Translucent rack made of **autoclavable** polypropylene up to 121°C; with hinged lid.

#### Suitable (not exclusive)

Eppendorf®, Socorex®, Gilson®, Nichiryo®, Biohit®, Brand®, Jencons®, Thermo®, DSG®, Elkay®, HTL®, Finnpiquette®, Genex®.

code	description	sterile	case quantity	case weight	case volume
● <b>200076</b>	tips in bulk	no	25 x 1,000	9.5	0.072
● <b>200076R</b>	tips in rack	no	10 x 96	1.98	0.009
● <b>200076F</b>	filter tips in bulk	no	25 x 1,000	9.6	0.072
●●● <b>200076RF</b>	filter tips in rack	<b>RADIATION</b>	10 x 96	1.99	0.009

Tips in bulk: minimum unit sale: 1 bag.



### 5 - 200 µl tip

Natural colour universal tip, bevelled. MLA® type. Translucent rack made of **autoclavable** polypropylene up to 121°C; with hinged lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200017</b>	tips in bulk	no	25 x 1,000	10.2	0.072
● <b>200017R</b>	96 tips rack	no	10 x 96	1.8	0.086

Tips in bulk: minimum unit sale: 1 bag.



### 5 - 200 µl tip

Natural colour universal tip, bevelled. Oxford® type. Suitable for the DiaMed-Micro typing System machine. Translucent rack made of **autoclavable** polypropylene up to 121°C; with hinged lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200019</b>	tips in bulk	no	12 x 1,000	7.2	0.072
● <b>200019R</b>	96 tips rack	no	10 x 96	1.8	0.086

Tips in bulk: minimum unit sale: 1 bag.

#### Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free

## 20 - 300 µl tip

Natural colour universal tip. Eppendorf® type.

### Suitable (not exclusive)

Eppendorf®, Gilson®, Brand®, Biohit®, Elkay®, Jencons®, Finnpiquette®, Nichiryo®, Socorex®.

Rack made of **autoclavable** (up to 121 °C) polypropylene.

Racks with transparent lid and base in different colours:

Rack without filter: blue base.

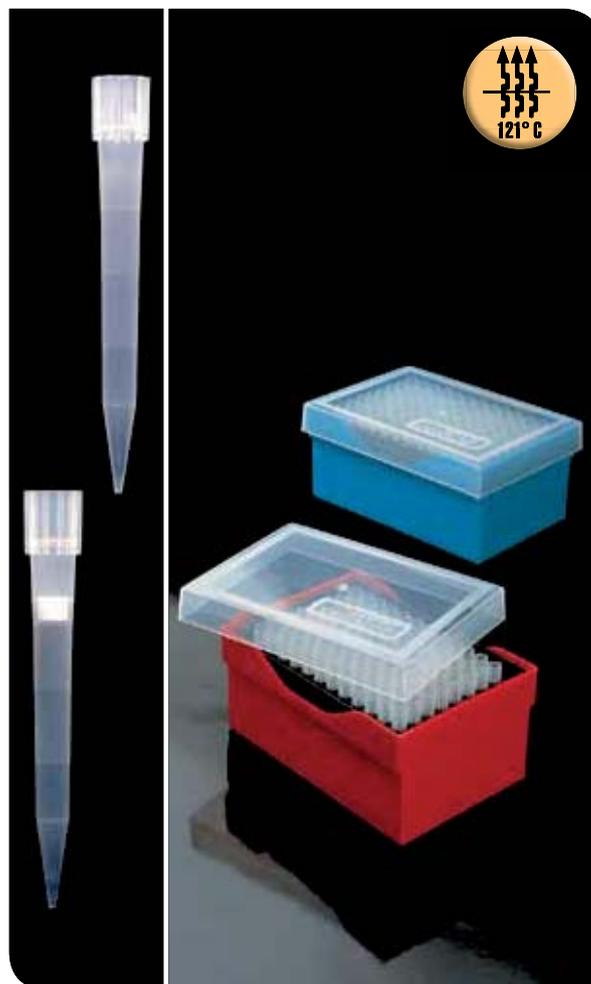
STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
● <b>200077</b>	tips in bulk	no	20 x 1,000	9.4	0.072
● <b>200077R</b>	96 tips rack	no	10 x 96	1.9	0.009
● <b>200077F</b>	filter tips in bulk	no	20 x 1,000	9.4	0.072
●●● <b>200077FR</b>	96 tips rack filter	RADIATION	10 x 96	2.0	0.009
●●● <b>200077FRX</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	2.0	0.009
●●● <b>200077FRB</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2.0	0.009

Tips in bulk: minimum unit sale: 1 bag.



## 100 - 1,000 µl tip

Universal tip with collar. Blue or natural colour.

### Suitable (not exclusive)

Eppendorf®, Gilson®, Biohit®, DSG®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®. Suitable for Menarini®.

Rack made of polypropylene, **autoclavable** up to 121°C.

Racks with transparent lid and base in different colours depending on the model. Tips without filter: blue base.

STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
<b>Blue colour:</b>					
● <b>200012</b>	tips in bulk	no	10 x 1,000	8.1	0.084
● <b>200012B</b>	single tips individually wrapped	RADIATION	175	0.27	0.004
● <b>200012R</b>	96 tips rack	no	10 x 96	2.4	0.015
<b>Natural colour:</b>					
● <b>200070</b>	tips in bulk	no	10 x 1,000	8.1	0.084
● <b>200070R</b>	96 tips rack	no	10 x 96	2.4	0.015
●●● <b>200070NR</b>	96 tips rack	RADIATION	10 x 96	2.4	0.015
● <b>327-30</b>	filter tips in bulk	no	10 x 1,000	8.1	0.084
●●● <b>327-30R</b>	96 tips rack filter	RADIATION	10 x 96	2.4	0.015
●●● <b>327-30RX</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	2.4	0.015
●●● <b>327-30RB</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2.4	0.015

Tips in bulk: minimum unit sale: 1 bag.



Colour codes:

● RNase and DNase free

● Metal free

● Pyrogen free



### 100 - 1,000 µl tip

Gilson® Universal tip.

#### Suitable (not exclusive)

Gilson®, Eppendorf®, Biohit®, DSG®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, Socorex®, HTL®.

Rack made of polypropylene, **autoclavable** up to 121°C.

Racks with transparent lid and base in different colours depending on the model.

Tips without filter: blue base.

STANDARD filter: red base.

EXTRA filter: white base.

X-COLOUR filter: base in marble colour.

code	description	sterile	case quantity	case weight	case volume
<b>Blue colour:</b>					
● <b>200080.1</b>	tips in bulk	no	10 x 1,000	10.8	0.084
● <b>200080.1R</b>	96 tips rack	no	10 x 96	2,8	0.015
<b>Natural colour:</b>					
● <b>200082</b>	tips in bulk	no	10 x 1,000	10.8	0.057
● <b>200082R</b>	96 tips rack	no	10 x 96	2.6	0.015
●●● <b>200082NR</b>	96 tips rack	RADIATION	10 x 96	2.6	0.015
● <b>200082F</b>	filter tips in bulk	no	10 x 1,000	10.8	0.057
●●● <b>327-16</b>	96 tips rack filter	RADIATION	10 x 96	2.7	0.015
●●● <b>327-16X</b>	96 tips rack EXTRA filter	RADIATION	10 x 96	2.7	0.015
●●● <b>327-16B</b>	96 tips rack X-COLOUR filter	RADIATION	10 x 96	2.7	0.015

Tips in bulk: minimum unit sale: 1 bag.



### 100 - 1,000 µl tip

Universal tip with collar. Natural colour, Eppendorf® type.

#### Suitable (not exclusive)

Eppendorf®, Nichiryo®, Biohit®, Brand®, Dsg®, Gilson®, Elkay®, Finnpiquette®, Genex®, Jencons®, HTL® Suitable for Menarini®.

Translucent rack made of **autoclavable** polypropylene up to 121°C; with hinged lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200029</b>	tips in bulk	no	10 x 1,000	8.1	0.084
● <b>200029R</b>	96 tips rack	no	10 x 96	2.4	0.015
● <b>200029F</b>	filter tips in bulk	no	10 x 1,000	8.1	0.084
●●● <b>200029RF</b>	96 tips rack filter	RADIATION	10 x 96	2.4	0.015

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

● RNase and DNase free

● Metal free

● Pyrogen free

**5 - 1,000 µl tip**

Universal natural colour tip. Beckmann® type.

**For use (but not limited to)**

Sherwood®, Lancer®.

code	description	sterile	case quantity	case weight	case volume
● <b>200021</b>	tips in bulk	no	10 x 1,000	6.8	0.072

Tips in bulk: minimum unit sale: 1 bag.

**100 - 1,000 µl tip**

Universal tip. Oxford® type.

**For use (but not limited to)**

Finnpipette®, Labsystem®.

code	description	sterile	case quantity	case weight	case volume
● <b>200020</b>	tips in bulk	no	8 x 1,000	6.6	0.072

Tips in bulk: minimum unit sale: 1 bag.

**100 - 1,000 µl tip**

Natural colour universal tip special for MLA®. Bevelled.

**Suitable (not exclusive)**

Finnpipette® colour.

code	description	sterile	case quantity	case weight	case volume
● <b>200018</b>	tips in bulk	no	8 x 1,000	6.6	0.072

Tips in bulk: minimum unit sale: 1 bag.



Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



### 100 - 1,000 µl tip

Natural colour universal tip, bevelled and graduated.

#### For use (but not limited to)

Gilson®, Rainin®, Finnpiquette®, Nichiryo®, Eppendorf®, Biometra®.

code	description	sterile	case quantity	case weight	case volume
●●● 200022	tips in bulk	no	10 x 1,000	10.9	0.008

Tips in bulk: minimum unit sale: 1 bag.

#### Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



### Pipetting reservoir

Reservoir specially designed for use with multichannel pipettes. Made of polystyrene. Code M-210 is supplied sterile and individually wrapped.

code	description	sterile	case quantity	case weight	case volume
M-200	150 ml	no	50	0.18	0.00002
<b>NEW</b> M-210	150 ml	RADIATION	50	0.21	0.00050
M-203	25 ml	no	5 x 10	0.02	0.00002



See our plates for liquid handling on chapter 2. Molecular Biology.



### Pipetting reservoir

8 and 12 channel reservoir, 40 ml, PS, sterile. Individually wrapped.

#### Dimensions:

**330089:** 83 x 126 x 13 mm

**330129:** 126 x 83 x 13 mm

code	description	sterile	case quantity	case weight	case volume
<b>330089</b>	8 channel. 40 ml	RADIATION	10	0.03	0.0004
<b>330129</b>	12 channel. 40 ml	RADIATION	10	0.05	0.0004

## 1 - 5 ml macrotip

Natural colour universal macro tip, with collar.  
Eppendorf® type.

### For use (but not limited to)

Biohit®, Dsg®, Eppendorf®, Genex®, Jencons®, Socorex® 2005 model.

Rack made of polypropylene **autoclavable** up to 121° C.  
Polycarbonate transparent lid and marble base.  
Sliding lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200075</b>	tips in bulk	no	8 x 250	5.8	0.072
● <b>199075</b>	50 tips rack	no	4 x 50	2.4	0.013
●●● <b>200075RF</b>	50 tips rack filter	<b>RADIATION</b>	4 x 50	2.4	0.013



## 1 - 5 ml macrotip

Natural colour universal macro tip with collar.  
Socorex® type.

### For use (but not limited to)

Nichiryo®, Oxford®.

code	description	sterile	case quantity	case weight	case volume
<b>831-312</b>	tips in bulk	no	12 x 250	8.5	0.080
<b>831-312B</b>	single tips individually wrapped	<b>RADIATION</b>	75	0.3	0.004



Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



### 1 - 5 ml macrotip

Blue colour universal macro tip with collar.  
Socorex® type.

#### For use (but not limited to)

Gilson®, Nichiryo®.

Rack made of polypropylene **autoclavable** up to 121° C.  
Transparent lid and marble base.  
Sliding lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200083</b>	tips in bulk	no	8 x 250	6.0	0.060
● <b>200083R</b>	50 tips rack	no	4 x 50	2.1	0.010



### 1 - 5 ml macrotip

Natural colour universal macro tip with collar.  
Finnipipette® type.

#### For use (but not limited to)

Brand®, Labssystem®.

Rack made of polypropylene **autoclavable** up to 121° C.  
Transparent lid and marble base.  
Sliding lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200028</b>	tips in bulk	no	8 x 250	6.5	0.060
● <b>200028R</b>	50 tips rack	no	4 x 50	2.2	0.010
●●● <b>200028RF</b>	50 tips rack filter	<b>RADIATION</b>	4 x 50	2.2	0.010

Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



## 2 - 10 ml macrotip

Natural colour universal macro tip with collar. Gilson® type.

### For use (but not limited to)

Finnipipette®, Labsystem®, Socorex®.

Rack made of polypropylene **autoclavable** up to 121° C.  
Transparent lid and marble base. Sliding lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200015</b>	tips in bulk	no	10 x 100	6.9	0.072
● <b>200015R</b>	25 tips rack	no	4 x 25	2.2	0.015
●●● <b>200015RF</b>	25 tips rack filter	<b>RADIATION</b>	4 X 25	2.2	0.015

Colour codes:

- RNAse and DNase free
- Metal free
- Pyrogen free



Please contact our commercial department to get more information about our wide range of Socorex® products:

- \* Pipettes: adjustable and fixed volume; digital, analogical and electronic; multichannel...
- \* Microdispensers, table top dispensers and compact dispensers
- \* Self-refilling syringes





### Ritips® professional

Different capacities. Black graduations.

Each box of 25ml and 50ml contains a free of charge adapter.

#### For use (but not limited to)

Biohit® eLine® Lite y Pro, Brand® HandyStep electronic, Eppendorf® Multipipette Plus, Multipipette Pro, y Multipipette 4780, Nichimate® Stepper (Nichiryo®), Gilson® Distriman, StepMate®, Ripette® and other compatible dosage systems.

When used with Multipipette plus and Multipipette Pro the display dispenser is inoperative.

	code	description	case quantity	case weight	case volume
NON STERILE	317-314.1	Combitip plus 1.0 ml	100	0.365	0.006
	317-315.1	Combitip plus 2.5 ml	100	0.478	0.006
	317-316.1	Combitip plus 5 ml	100	0.511	0.006
	317-317.1	Combitip plus 10 ml	100	0.617	0.006
	317-318.1	Combitip plus 25 ml	25	0.413	0.006
	317-319.1	Combitip plus 50 ml	25	0.511	0.006



### Ritips® standard

Different capacities, standard and sterile models.

Red graduations.

#### For use (but not limited to)

Eppendorf®, Multipipette 4780, Brand® Handystep y Handystep Electronic, Nichimate® Stepper, Ripette® y Ripette® GenX, Minilab® 100/101, Stepmate®, Easystep®, Gilson® Distriman®, and other compatible dosage systems...

Sterile models are **Rnase, Dnase and pyrogen free**.

Individually wrapped.

	code	description	case quantity	case weight	case volume
NON STERILE	316-313.1	Combitip 0.5 ml	100	0.353	0.006
	316-314.1	Combitip 1.25 ml	100	0.440	0.006
	316-315.1	Combitip 2.5 ml	100	0.543	0.006
	316-316.1	Combitip 5 ml	100	0.712	0.006
	316-317.1	Combitip 12.5 ml	100	0.901	0.006
	316-318.1	Combitip 25 ml	25	0.407	0.006
	316-319.1	Combitip 50 ml	25	0.509	0.006
STERILE	316-313.2	●● Combitip 0.5 ml	100	0.511	0.008
	316-314.2	●● Combitip 1.25 ml	100	0.574	0.008
	316-315.2	●● Combitip 2.5 ml	100	0.660	0.008
	316-316.2	●● Combitip 5 ml	100	0.848	0.008
	316-317.2	●● Combitip 12.5 ml	100	1.017	0.008
	316-318.2	●● Combitip 25 ml	25	0.495	0.008
	316-319.2	●● Combitip 50 ml	25	0,570	0,008

Colour codes:

- RNase and DNase free
- Pyrogen free



**Distributors – steppers are available under request.  
Please ask our commercial department for more information.**

Our Pasteur Pipettes are manufactured according to ISO 9001:2000.

### POLYETHYLENE Transfer Pipettes

- Sterile and non-sterile
- Low-affinity surface
- Attached bulb avoids cross-contamination
- One-step biohazard disposal
- Shatterproof, low density polyethylene which is non-toxic and inert
- Can be frozen in liquid nitrogen

**You can ask for our pipettes in three kinds of presentation:**

- **Bag made (steriles or not):** of polyethylene (picture 1).
- **Peel-pack (steriles):** packed individually with its code, lot number and expiration date printed on the paper (picture 2).
- **Flow-pack (steriles):** packed individually with its code, lot number and expiration date printed on polyethylene bag (picture 3).



Fig. 1

### Used in Lab Procedures with:

- Beakers
- Volumetric flasks
- Vials
- Centrifuge tubes
- Cryogenic vials
- Dishes
- Microtiter plates
- Microscope slides

### Life Sciences Applications:

- Cells in flasks and tubes: large volume, tong pipettes
- Isolating Cells: large aperture pipettes
- Control techniques: narrow stem and fine tip

### Industrial Research and Testing:

- Chromatography
- Viscous liquid samples and transfers
- Field Testing
- Spectrophotometry Cuvettes
- Reagent Handling

### Clinical Applications:

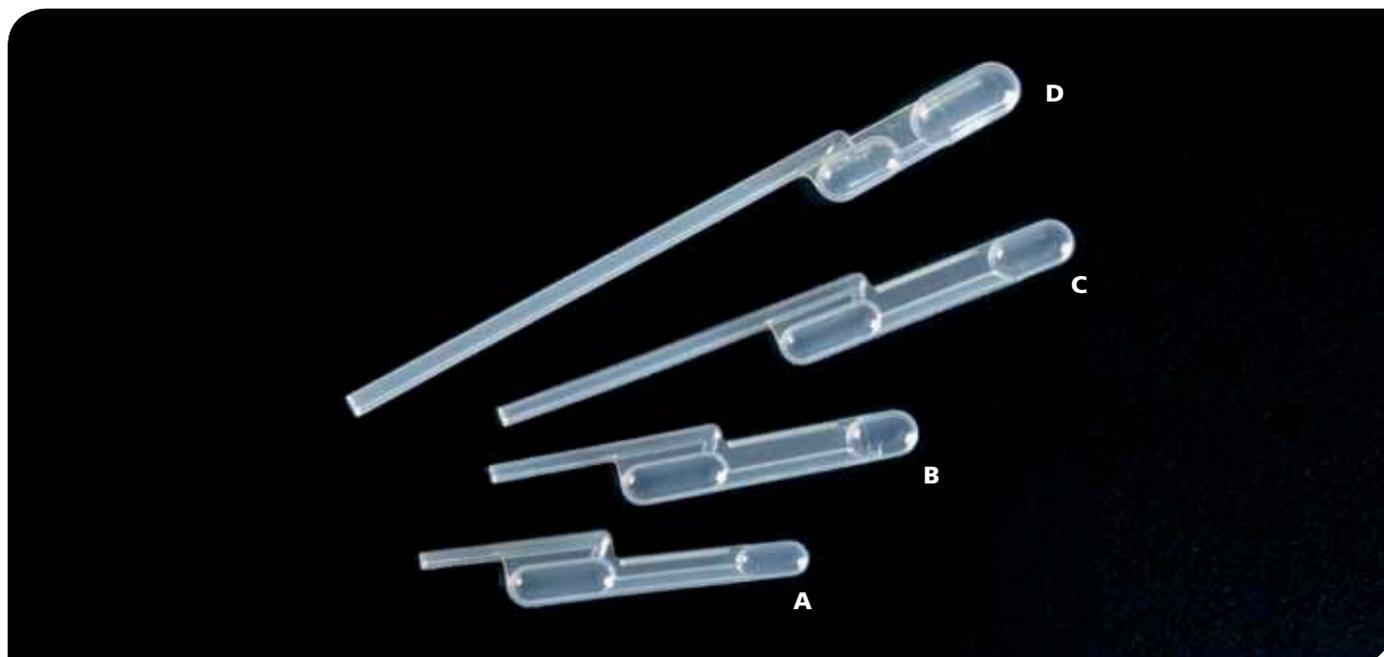
- Blood Banking
- Small volume dispensing
- Sedimentation and Storage
- Bottle Sampling
- Slides



Fig. 2



Fig. 3



### Micropipettes

Made in transparent, inert and low intensity polyethylene. They are used as volume measurers, to incorporate in kits of reagents, pregnancy tests, etc. They can be frozen in liquid nitrogen.

Before use, press the upper bulb, filling all the stem, and the rest remains in the inferior bulb, which it is not due to give. Volumetrical tolerance:  $\pm 10\%$ .

mod.	code	presentation	length mm	dispense volume $\mu\text{l}$	case weight	case volume
A	<b>201020</b>	500	51,6	20	0,3	0,002
B	<b>201040</b>	500	59,2	40	0,4	0,003
C	<b>201110</b>	500	83,0	100	0,4	0,004
D	<b>201250</b>	500	102,0	250	0,4	0,005

NEW



### Special purpose pipettes

Made in transparent, inert and low intensity polyethylene. They can be frozen in liquid nitrogen. Volumetrical tolerance:  $\pm 10\%$ .

mod.	code	presentation	length mm	$\varnothing$ stem mm	total capacity ml	bulb draw $\mu\text{l}$	case weight	case volume
A	<b>210030</b>	8 x 500	130	3.8	0.5	0.2	3	0.03
B	<b>210005</b>	500	50	1.19	1.3	1.0	0.4	0.003

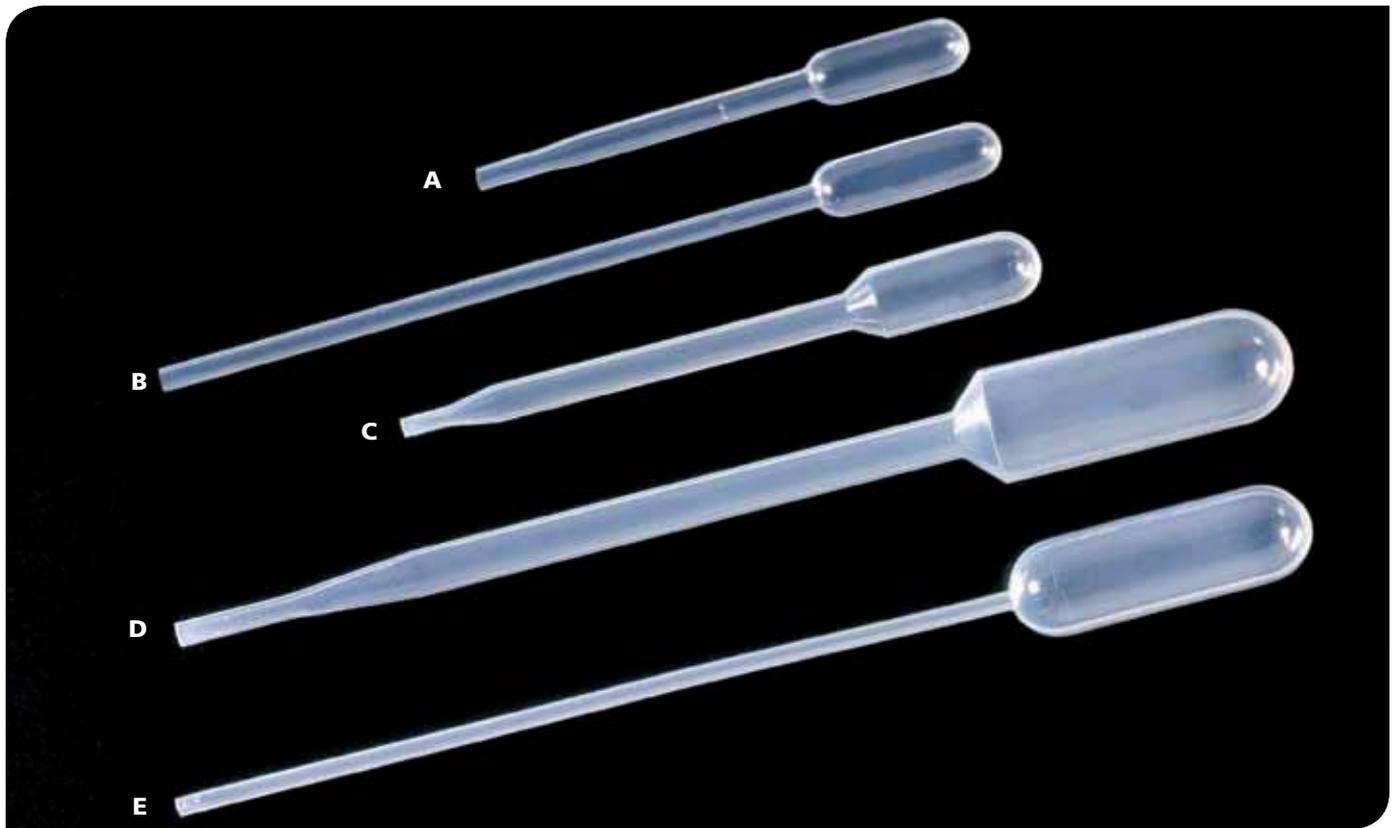


### Graduated pipettes

Made in transparent, inert and low intensity polyethylene.

**Sterile** models are ethylene oxide sterilized. Volumetrical tolerance:  $\pm 10\%$ .

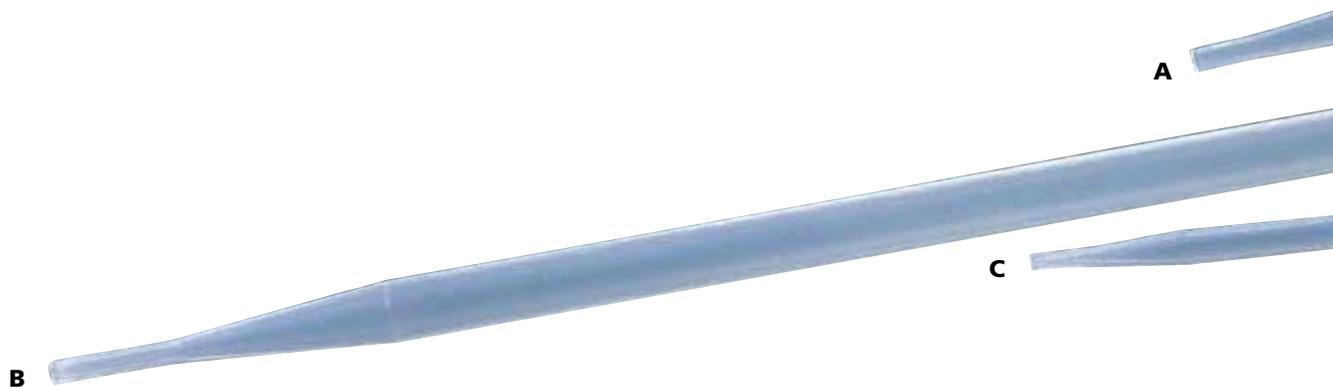
mod.	code	presentation	sterile	length mm	Ø stem mm	total capacity ml	bulb draw ml	graduations ml	case weight	case volume	pallet quantity
A	<b>200002</b>	10 x 500	no	150	7.0	5.0	1.8	0.50	8.60	0.102	100,000
B	<b>200006</b>	10 x 500	no	154	7.8	7.0	3.2	0.50	8.50	0.102	100,000
B	<b>200062.0</b>	10 x 500 bag 20 u.	<b>OXIDE</b>	154	7.8	7.0	3.2	0.50	6.40	0.098	100,000
B	<b>200007</b>	6 x 500 individually wrapped peel-pack	<b>OXIDE</b>	154	7.8	7.0	3.2	0.50	7.20	0.165	27,000
B	<b>200037</b>	6 x 500 individually wrapped flow-pack	<b>OXIDE</b>	154	7.8	7.0	3.2	0.50	7.20	0.165	27,000
C	<b>200003</b>	6 x 500	no	154	5.0	5.0	3.1	0.25	5.94	0.062	90,000
C	<b>200032.0</b>	6 x 500 bag 20 u.	<b>OXIDE</b>	154	5.0	5.0	3.1	0.25	6.48	0.067	90,000
C	<b>200004</b>	6 x 500 individually wrapped peel-pack	<b>OXIDE</b>	154	5.0	5.0	3.1	0.25	7.20	0.165	27,000
C	<b>200034</b>	6 x 500 individually wrapped flow-pack	<b>OXIDE</b>	154	5.0	5.0	3.1	0.25	7.20	0.165	27,000



### General purpose pipettes

Made in transparent polyethylene.  
 Model **200120** is sterile by radiation.  
 Volumetrical tolerance:  $\pm 10\%$ .

mod.	code	presentation	sterile	length mm	Ø stem mm	total capacity ml	bulb draw ml	case weight	case volume
A	<b>200121</b>	10 x 1,000	no	67	3.9	1.1	0.5	7.21	0.047
B	<b>200122</b>	10 x 1,000	no	115	2.9	1.3	0.7	7.5	0.047
C	<b>200001</b>	8 x 500	no	87	4.7	1.7	0.9	3.5	0.040
D	<b>200000</b>	10 x 400	no	150	6.3	8.0	4.6	8.7	0.095
D	<b>200120</b>	8 x 400 bag 20 u.	<b>RADIATION</b>	150	6.3	8.0	4.6	9	0.130
E	<b>200005</b>	6 x 500	no	150	2.5	4.0	3.1	4.2	0.070
E	<b>200008</b>	6 x 500 individually wrapped peel-pack	<b>OXIDE</b>	150	2.5	4.0	3.1	7.2	0.165
E	<b>200038</b>	6 x 500 individually wrapped flow-pack	<b>OXIDE</b>	150	2.5	4.0	3.1	7.2	0.165



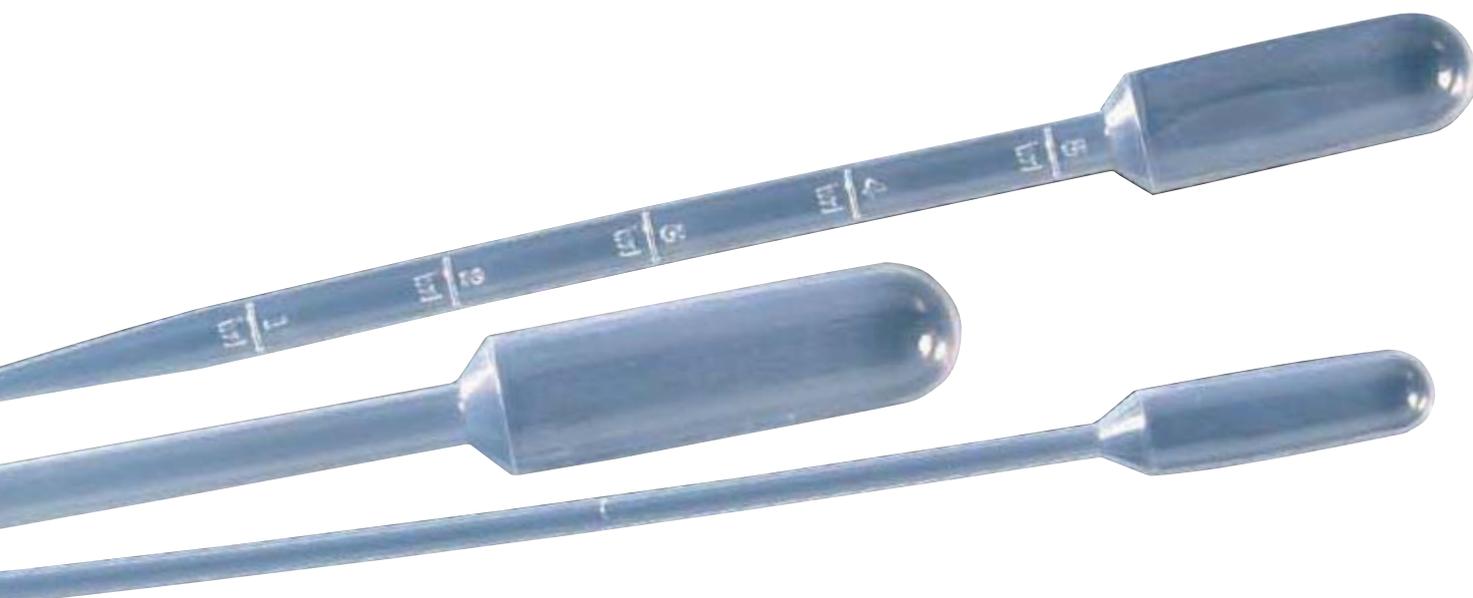


### General purpose pipettes

Made in transparent an inert polyethylene.

Sterile models are sterilized by ethylene oxide. Volumetrical tolerance:  $\pm 10\%$ .

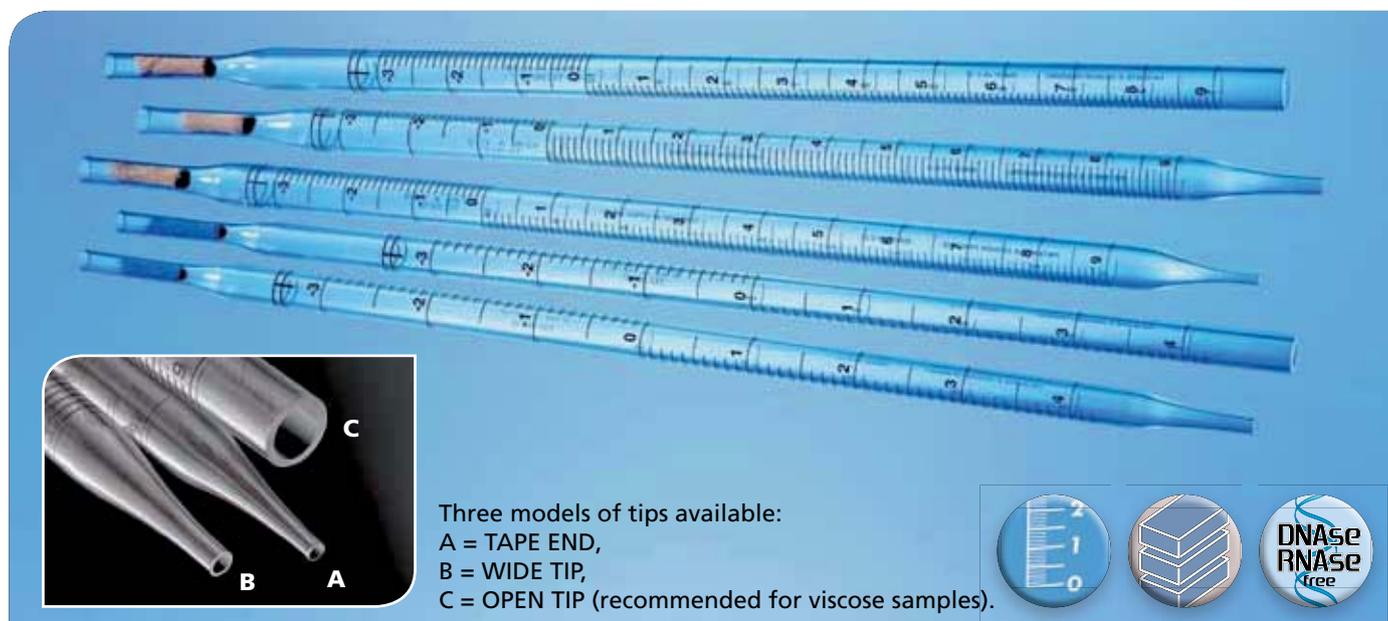
mod.	code	presentation	sterile	length mm	Ø stem mm	total capacity ml	bulb draw ml	case weight	case volume
A	<b>210003</b>	8 x 400	no	104	3.0	1.5	1.0	2.4	0.023
A	<b>210023</b>	500 individually wrapped peel-pack	<b>OXIDE</b>	104	3.0	1.5	1.0	1.7	0.03
B	<b>210002</b>	10 x 500	no	144	5.0	5.0	3.3	7.4	0.099
B	<b>210022</b>	500 individually wrapped peel-pack	<b>OXIDE</b>	144	5.0	5.0	3.3	1.7	0.03
C	<b>210004</b>	8 x 250	no	153	3.0	5.5	3.0	2.5	0.04
C	<b>210024</b>	500 individually wrapped peel-pack	<b>OXIDE</b>	153	3.0	5.5	3.0	1.9	0.03



### Extra long pipettes

Made in transparent polyethylene. Model **200050** is graduated each ml up to 5 ml. Volumetrical tolerance:  $\pm 10\%$ .

mod.	code	presentation	length mm	Ø stem mm	total capacity ml	bulb draw ml	case weight	case volume
A	<b>200050</b>	10 x 250	216	-	5.0	3.5	8.18	0.102
B	<b>200060</b>	10 x 100	300	9.0	23.0	7.1	7.3	0.106
C	<b>210006</b>	10 x 400	225	5.0	6.0	2.3	8.4	0.099



Three models of tips available:

A = TAPE END,

B = WIDE TIP,

C = OPEN TIP (recommended for viscose samples).

### Sterile serological pipettes

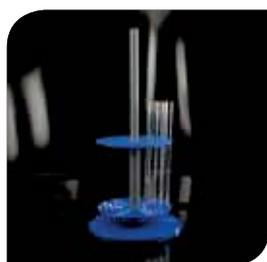
Single use, made of crystal polystyrene. Accuracy > 98 %.

Sterilised by radiation. Made in **one piece** for an optimum precision, except code 90043 (50ml).

No liquid retention: as tip is not sealed, liquid is not held at the joint. Total dispensing guaranteed.

Non pyrogenic (ISO 10993-11), non cytotoxic (ISO 10993-5) and non haemolytic (ISO 10993-4). **DNase and RNase free.** Volumes range from 1 to 25 ml. Pipettes include a coloured cotton plug for better identification. The peel-pack have a **fiber-free** packaging including a strip for easy opening. Black graduations are bright, black and **permanent**. 5, 10 and 25 ml models have negative graduations for extra capacity, and a second reverse scale (ascending and descending).

code	capacity ml	presentation	cotton colour	case quantity	tip	graduation ml	negative graduation ml	total capacity ml	case weight	case volume
900030	1	1 peel pack	●	4 x 500	A	0/0.9	until -0.3	1.3	10.10	0.072
900031	1	bag of 25	●	4 x 1,000	A	0/0.9	until -0.3	1.3	14.00	0.072
900130	1	1 peel pack	●	4 x 500	C	0/0.9	until -0.3	1.3	10.10	0.072
900131	1	bag of 25	●	4 x 1,000	C	0/0.9	until -0.3	1.3	14.00	0.072
900032	2	1 peel pack	●	4 x 500	A	0/1.8	until -0.4	2.4	11.30	0.072
900033	2	bag of 25	●	4 x 1,000	A	0/1.8	until -0.4	2.4	17.20	0.072
900133	2	bag of 25	●	4 x 1,000	C	0/1.8	until -0.4	2.4	17.20	0.072
900034	5	1 peel pack	●	4 x 250	A	0/4	until -3	8	12.20	0.072
900038	5	bag of 25	●	4 x 375	A	0/4	until -3	8	15.10	0.072



Find trays, rotary stands and other products for pipettes in Chapter 12. **General Labware**



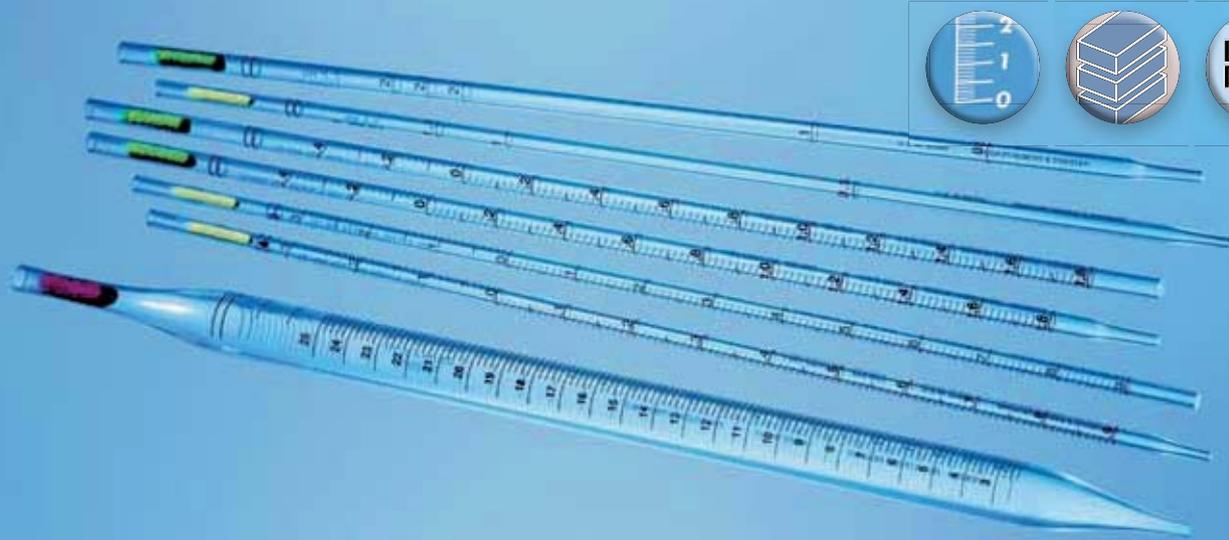
### Pipetting bulb

Made of rubber. Used to avoid mouth pipetting and contamination risk.

Can be opened, cleaned and **autoclaved**.

Ideal for Wintrobe and Westergren pipettes.

code	description	bag quantity	bag weight	bag volume
19201	red pipetting bulb	1	0.10	0.001



code	capacity ml	presentation	cotton colour	case quantity	tip	graduation ml	negative graduation ml	total capacity ml	case weight	case volume
900144	5	1 peel pack	●	4 x 250	B	0/4	until -3	8	12.20	0.072
900134	5	1 peel pack	●	4 x 250	C	0/4	until -3	8	12.20	0.072
900036	10	1 peel pack	●	4 x 200	A	0/9	until -3	13	11.20	0.072
900037	10	bag of 25	●	4 x 250	A	0/9	until -3	13	12.80	0.072
900146	10	1 peel pack	●	4 x 200	B	0/9	until -3	13	11.20	0.072
900147	10	bag of 25	●	4 x 250	B	0/9	until -3	13	12.80	0.072
900136	10	1 peel pack	●	4 x 250	C	0/9	until -3	13	11.20	0.072
900137	10	bag of 25	●	4 x 250	C	0/9	until -3	13	12.80	0.072
900041	25	1 peel pack	●	4 x 100	A	0/23	until -10	35	11.20	0.072
<b>NEW</b> 900042	25	bag of 10	●	4 x 100	A	1/5	until -2.6	27.6	11.20	0.072
<b>NEW</b> 900043	50	1 peel pack	●	200	A	1/2	until -5	55	6.70	0.072



See our Chapter 10.  
**Sample storage  
and Cryogenics**

See our Chapter 11.  
**Safety.**



## Pipette pumps

Several models for various pipette volumes.  
Designed for fast and efficient pipetting with simple, one handed operation.

Pipettes fit smoothly into collar.

Rotate the knurled thumb wheel on the side for precision filling or dispensing, and press the fast release lever for quick emptying.

Easy to use and easily disassembled for cleaning.

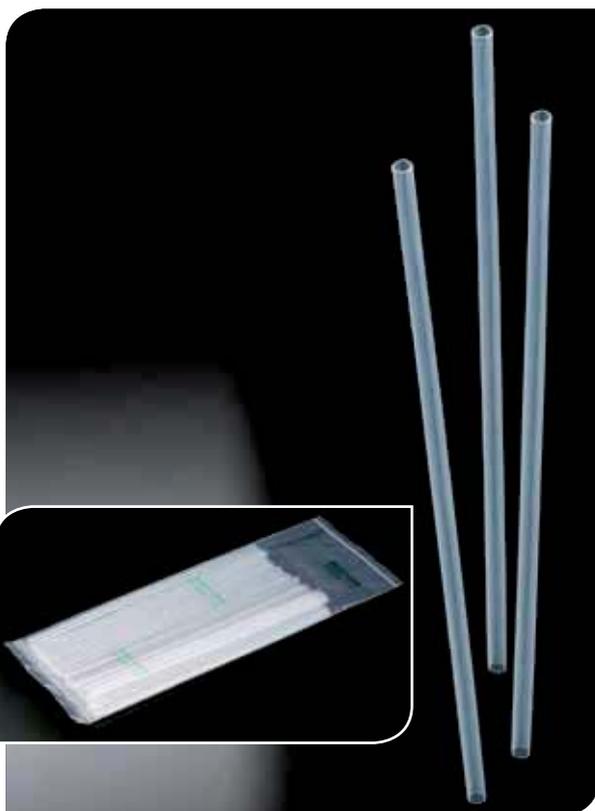
Sizes are colour coded.

Pipette pumps resist acids and alkalies.

Attention: New models coming soon.

code	description	colour	bag quantity	bag weight	bag volume
W-100	up to 2 ml	blue	1	0.05	0.0001
W-110	up to 10 ml	green	1	0.05	0.0001
W-120	up to 25 ml	red	1	0.05	0.0001





### Non graduated serological pipettes. Sterile

Single use, made in polystyrene, without graduation. In sterile packing by radiation.

**DNase and RNase free**, non cytotoxic, non haemolytic, apyrogen. Without cotton.

Standard tip, see picture (A) at the previous page.

Suitable for Integra VacuSafe Comfort and others.

Dimensions:

External tip diameter, between 5.45 - 5.7 mm, internal diameter tip end: between 1.8 - 2.2 mm.

code	capacity ml	presentacion	case quantity	case weight	case volume
900032.1	2	peel pack de 1	4 x 500	11.30	0.072

### Sterile single use Straw-like pipettes

Single use straw-like non graduated pipettes, ideal for food industry use. In polyethylene.

Suitable for automatic pipettes. **Sterilized** by radiation.

Packaged in flow packs of 25 units.

Outer diameter: 4.35 mm. Inner diameter: 3.65 mm.

code	capacity ml	length mm	case quantity	case weight	case volume
900050	1.0	40 x 25	40 x 25	1.14	0.008

### Pipette trays

Made of white PVC.

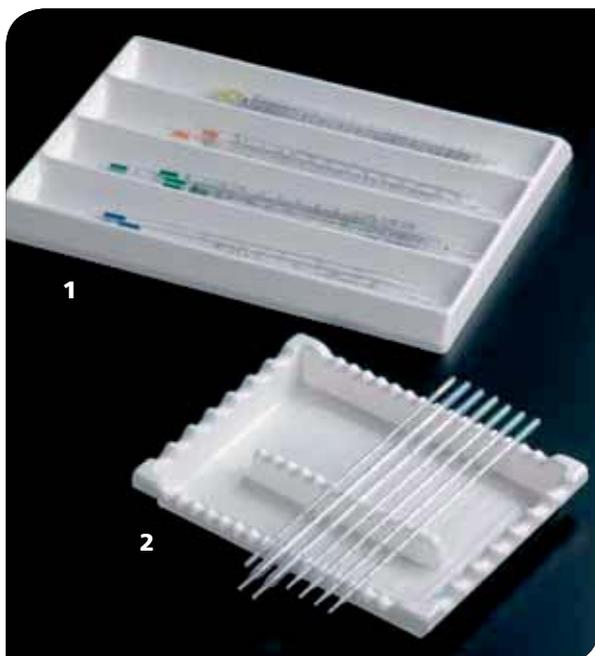
Resistant to temperatures from -20 to +80°C.

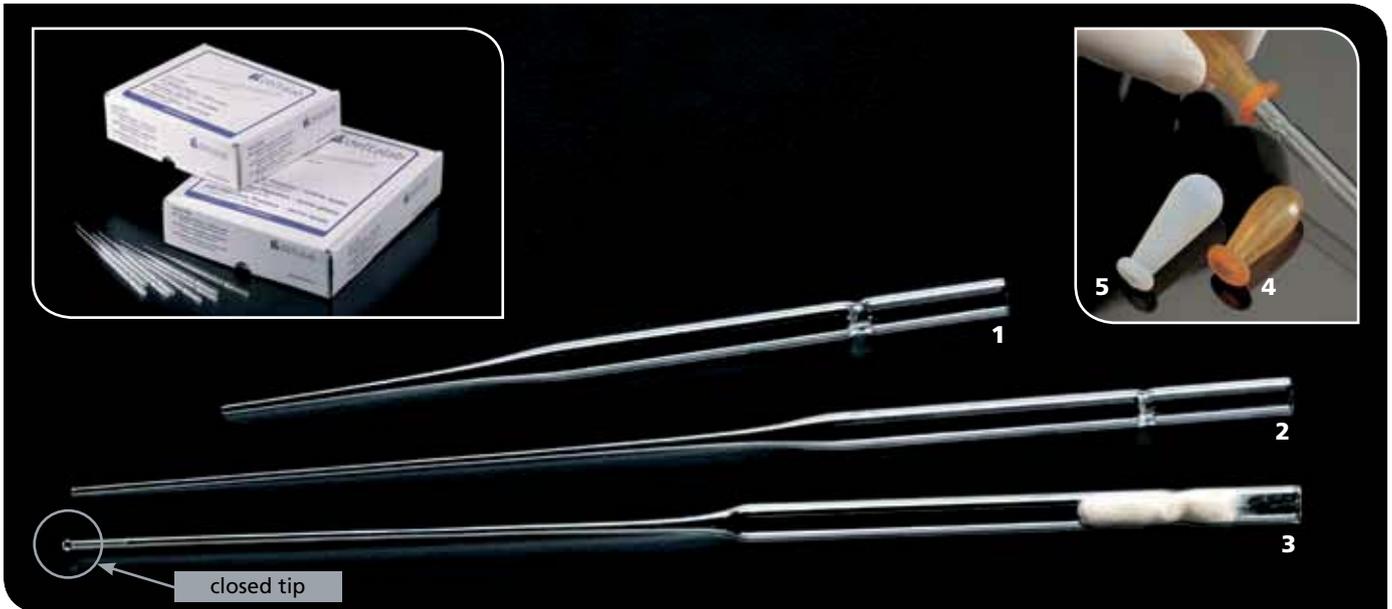
**Model 1**, code **19252**, is perfect to fit inside drawers. It includes four compartments that can hold up to thirty pipettes of 1, 2, 5, or 10 ml.

**Model 2**, code **19996**. Sixteen pipettes up to 10 mm diameter can be accommodated longitudinally; laterally, seven pipettes up to 20 mm diameter.

Tray edges are ergonomically designed for a better handling. It is also useful with other instruments.

mod.	code	dimensions mm	case quantity	case weight	case volume
1	19252	426 x 300 x 30	1	0.40	0.006
2	19996	283 x 216 x 40	6	1.30	0.018





### Glass Pasteur pipettes, open mouth

Soda glass. Dimensions:  $\varnothing$  mouth:  $6.95 \pm 0.15$  mm;  $\varnothing$  tip:  $1.2 \pm 0.15$  mm;  $0.53 \pm 0.03$  thick.

mod	code	total length mm	stem length mm	case quantity	case weight	case volume
1	<b>701</b>	150	59	4 x 250	3.20	0.011
2	<b>702</b>	230	130	4 x 250	3.60	0.016

### Glass Pasteur pipettes, closed tip

Made of neutral soda glass, with the tip closed and cotton in the mouth. Easy opening of the closed part by pushing it slightly. Dimensions: mouth: 7.00 mm; tip: 1.4 to 1.6 mm; thickness: 0.50 mm.

mod	code	total length mm	stem length mm	case quantity	case weight	case volume
3	<b>712</b>	230	130	4 x 250	4.00	0.016

### Pipetting bulbs

Designed for pipetting with plastic and glass pipettes.

mod	code	material	total length mm	$\varnothing$ max. mm	capacity pipetting ml	bag quantity	bag weight	bag volume
4	<b>19194</b>	latex	35	14	2	100	0.15	0.0014
5	<b>19195</b>	silicone	40	15	1,5 - 1,8	50	0.26	0.0014



1. Evacuate the air by pressing the bulb, as the drawing indicates.
2. Intake by pressing on point B (↑)
3. Drain the liquid by pressing on point A (↓)
4. Blow out the pipette by pressing as the drawing indicates (point C).

### EUROTUBO® Pipetting bulb

This one-handed design is the simplest safety pipette filler to use available. Manufactured in natural orange rubber.

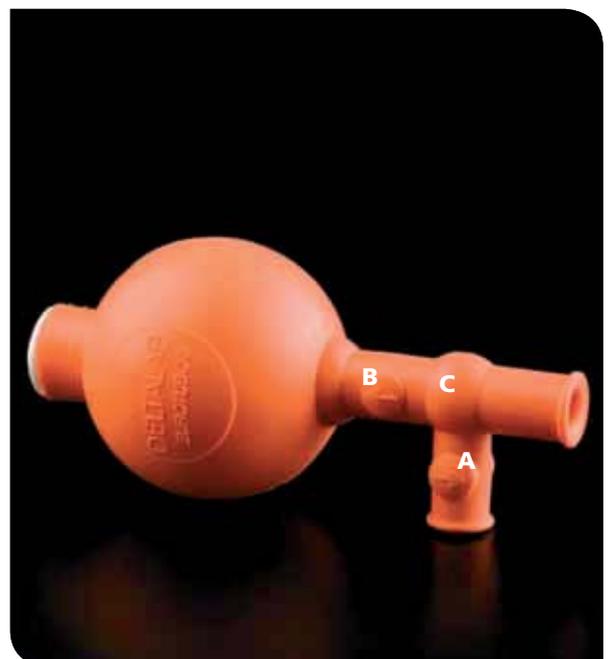
Approx. drawn capacity: 25 ml.

Single hand use, only two operating points.

Evacuate via the automatic valve.

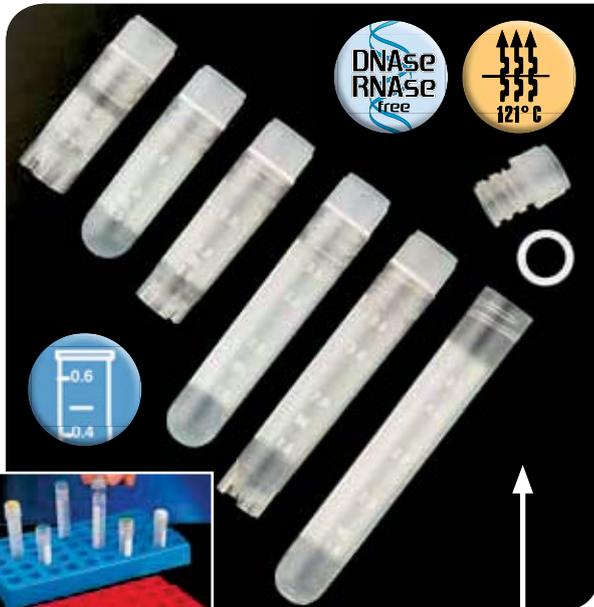
Standard model, accommodates all pipettes. Ability to clean inside of bulb by removing patented valve and rinsing out.

code	description	bag quantity	bag weight	bag volume
<b>19200</b>	pipetting bulb	1	0.10	0.002









## Sterile cryovials

Tubes made of **autoclavable** polypropylene. Designed for the storage of biological material at temperatures as low as  $-196\text{ }^{\circ}\text{C}$ . (Liquid Nitrogen but in gas state). Cryovials have printed graduations and feature a white marking area for sample identification. Caps and tubes have both the same coefficient of expansion, which further enhances their leakproof qualities at changing temperatures. Caps are manufactured in polyethylene\* and embody a silicone o-ring that guarantees leakproof. Colour code inserts can be fitted into the caps for identification.

**All cryovials are certified RNase, DNase and pyrogen free.**

Cryovials are sterilized by radiation and are packaged in safety-lock bags of 100. Supplied capped.

### External threads:

minimize liquid retention. Non skirted versions withstand centrifugation up to **17,000 g**.

\* 10 ml cryovial (code **401410**) features a polyethylene cap which does not accept inserts.

### Internal threads:

Non skirted versions withstand centrifugation up to 14,000 g.

### Cryovials with external threads:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409105.1</b>	1.2	yes	12.5 x 42	10 x 100	2.55	0.014
<b>409103.1</b>	2.0	no	12.5 x 47	10 x 100	2.64	0.014
<b>409106.1</b>	2.0	yes	12.5 x 49	10 x 100	2.64	0.014
<b>409107</b>	3.0	yes	12.5 x 71	10 x 100	3.79	0.021
<b>409108</b>	4.0	yes	12.5 x 77	10 x 100	3.90	0.028
<b>409109</b>	5.0	yes	12.5 x 92	10 x 100	4.58	0.028
<b>New 401410</b>	10.0	yes	17.0 x 84	10 x 50	2.80	0.020

\* Capped

### Cryovials with internal threads:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409001</b>	1.2	yes	12.5 x 41	10 x 100	2.55	0.014
<b>409002</b>	2.0	no	12.5 x 48	10 x 100	2.64	0.014
<b>409002.1</b>	2.0	yes	12.5 x 49	10 x 100	2.64	0.014
<b>409003</b>	4.0	no	12.5 x 70	10 x 100	3.79	0.024
<b>409003.1</b>	4.0	yes	12.5 x 72	10 x 100	3.90	0.024
<b>409003.2</b>	5.0	no	12.5 x 90	10 x 100	4.58	0.024

\* Capped

## Colour coded inserts

Made of polypropylene. Very convenient for colour identification in freezers, on benchtops etc. Fit precisely into the caps of cryovials. They feature a little hole in order to help removing them from the cap. Not suitable for code **401410**.

code	colour	case quantity	case weight	case volume
<b>409003A</b>	blue	500	0.10	0.010
<b>409003AM</b>	yellow	500	0.10	0.010
<b>409003R</b>	red	500	0.10	0.010
<b>409003V</b>	green	500	0.10	0.010

### Non sterile cryovials with external threads

Made of polypropylene. Designed for the storage and transportation of biological material. The external thread design provides a smooth and uniform inner surface, thus reducing the risk of contamination. Tubes can be **autoclaved** to 121° C and withstand temperatures down to -190°C. The closures and tubes are both manufactured of polypropylene having the same coefficient of expansion, which further enhances their leakproof qualities at changing temperatures.

Cryovials withstand centrifugation up to **17,000 g**. Skirted tubes are not recommended for centrifugation.

Available with or without graduation and white band.

Caps suitable for these cryovials are supplied separately, see code **409110** and series.

#### Cryovials printed without graduation:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409102.1</b>	1.2	yes	12.5 x 43	1,000	2.48	0.010
<b>409104.1</b>	2.0	no	12.5 x 48	1,000	2.57	0.010
<b>409106.2</b>	2.0	yes	12.5 x 49	1,000	2.68	0.010
<b>409107.1</b>	3.0	yes	12.5 x 72	1,000	3.77	0.020
<b>409108.1</b>	4.0	yes	12.5 x 76	1,000	3.82	0.020
<b>409109.1</b>	5.0	yes	12.5 x 93	1,000	4.46	0.020

\* Capped

#### Cryovials with graduation and band:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
<b>409132</b>	2.0	yes	12.5 x 49	1,000	2.68	0.010
<b>409133</b>	3.0	yes	12.5 x 72	1,000	3.77	0.010
<b>409134</b>	4.0	no	12.5 x 75	1,000	3.82	0.020
<b>409135</b>	4.0	yes	12.5 x 76	1,000	3.90	0.020

\* Capped

### Caps for the above tubes

Made of polypropylene. Feature a long skirt and a special thread design allowing them to be removed or sealed with a single turn and assuring a better protection of the content. A silicone washer ensures a positive leakproof seal at all temperatures.

Caps are made of polypropylene having the same coefficient of expansion as the above cryovials. See the previous page for colour inserts to fit into these caps.

code	colour	case quantity	case weight	case volume
<b>409110</b>	natural	1,000	0.082	0.001
<b>409110/1</b>	blue	1,000	0.082	0.001
<b>409110/4</b>	red	1,000	0.802	0.001

### Canes for cryovials

Made of aluminium.

Suitable for the storage of five or six 1.2 or 2.0 ml tubes in liquid nitrogen freezers such as Dewar flasks.

code	dimensions	case quantity	case weight	case volume
<b>409120</b>	290 mm	12	0.20	0.0001





### Screw thread microtubes

Made of **autoclavable** polypropylene, they can be used at extreme temperatures from -190 °C to +121° C.

**Certified RNase, DNase and Pyrogen free.**

Tubes and caps can be centrifuged at **17,000 g**.

Caps are supplied separately, see below.

Dimensions: 11 x 44 mm.

mod.	code	volume ml	skirt	case quantity	case weight	case volume
1	<b>409110.1</b>	0.5	yes	1,000	1.34	0.009
2	<b>409110.2</b>	1.5	yes	1,000	1.34	0.009
3	<b>409110.3</b>	1.5	no	1,000	1.34	0.009
4	<b>409110.4</b>	2.0	yes	1,000	1.34	0.009



### Caps for the above tubes

Made of polypropylene. Natural or opaque brown colour. Caps are available either with an attachment loop or without loop.

Both models have a sealing O-ring (red) of silicone to ensure a positive leakproof seal.

For sample identification, colour coding inserts can be placed upon caps (made of polypropylene).

Cap dimensions: 13 x 8 mm.

mod.	code	description	case quantity	case weight	case volume
1	<b>409007.N</b>	cap with loop	1,000	0.40	0.003
2	<b>409008.N</b>	cap without loop	1,000	0.40	0.003
3	<b>409007.M</b>	brown cap with loop	1,000	0.40	0.003
4	<b>409008.M</b>	brown cap without loop	1,000	0.40	0.003
5	<b>409111A</b>	blue insert	500	0.58	0.003
6	<b>409111AM</b>	yellow insert	500	0.58	0.003
7	<b>409111B</b>	white insert	500	0.58	0.003
8	<b>409111R</b>	red insert	500	0.58	0.003



### Screw thread opaque microtubes

Made of autoclavable opaque polypropylene.

Brown colour. They can be used at extreme temperatures from -196° to +121°C. **Certified RNase, DNase and Pyrogen free.**

Resistance to centrifugation: **17,000 g**. Designed to be used with light sensitive samples.

The caps recommended for these tubes are codes **409007.M** and **409008.M**. Dimensions: 11 x 44 mm.

mod.	code	volume ml	skirt	case quantity	case weight	case volume
1	<b>409113.1</b>	0,5	yes	1,000	1.34	0.009
2	<b>409113.2</b>	1,5	yes	1,000	1.34	0.009
3	<b>409113.3</b>	1,5	no	1,000	1.34	0.009
4	<b>409113.4</b>	2	yes	1,000	1.34	0.009

### Screw thread microtubes

Made of transparent polypropylene.  
Suitable for use in liquid nitrogen, **autoclave** and for boiling applications, and can be used at temperatures down to  $-190^{\circ}\text{C}$ .

**Certified RNase, DNase and Pyrogen free.**

Products ideal for long term sample storage.

Withstand centrifugation at **20,000 g**.

The codes **409111/4** and **409111/6**, with external moulded slots for better handling with gloves.

Dimensions: 10.3 x 44.5 mm (except code **409111/2**: 10.3 x 43.6 mm)

mod.	code	description	graduation	case quantity	case weight	case volume
1	<b>409111/4</b>	0.5 ml skirted	✗	500	0.70	0.002
2	<b>409111/2</b>	1.5 ml	✓	500	0.60	0.002
3	<b>409111/5</b>	1.5 ml skirted	✗	500	0.60	0.002 <i>New</i>
4	<b>409111/3</b>	2.0 ml	✓	500	0.60	0.002
5	<b>409111/6</b>	2.0 ml skirted	✗	500	0.60	0.002
6	<b>409111/7</b>	2.0 ml skirted	✓	500	0.60	0.002 <i>New</i>

### Caps for the above tubes with o-ring

Made of polypropylene of medical degree.  
Feature an internal O-ring to ensure leakproof seal.  
Dimensions 13.0 x 6.0 mm.

**Certified RNase, DNase and Pyrogen free.**

code	colour	case quantity	case weight	case volume
<b>409112/0</b>	natural	500	0.024	0.0001
<b>409112/1</b>	blue	500	0.024	0.0001
<b>409112/2</b>	green	500	0.024	0.0001
<b>409112/4</b>	red	500	0.024	0.0001
<b>409112/6</b>	yellow	500	0.024	0.0001



### Screw cap microtubes, with cap. Sterile

Tubes and caps in medical grade, transparent polypropylene.  
The cap embodies a non-reactive ethylene-propylene joint.  
Suitable for autoclave, liquid nitrogen (gaz) and boiling processes.  
Perfect for long term storage.

Withstand temperatures from  $-190^{\circ}\text{C}$ .

Centrifugation Resistance: **20,000 g**.

**DNase, RNase, DNA, PCR inhibitors and Pyrogen free.**

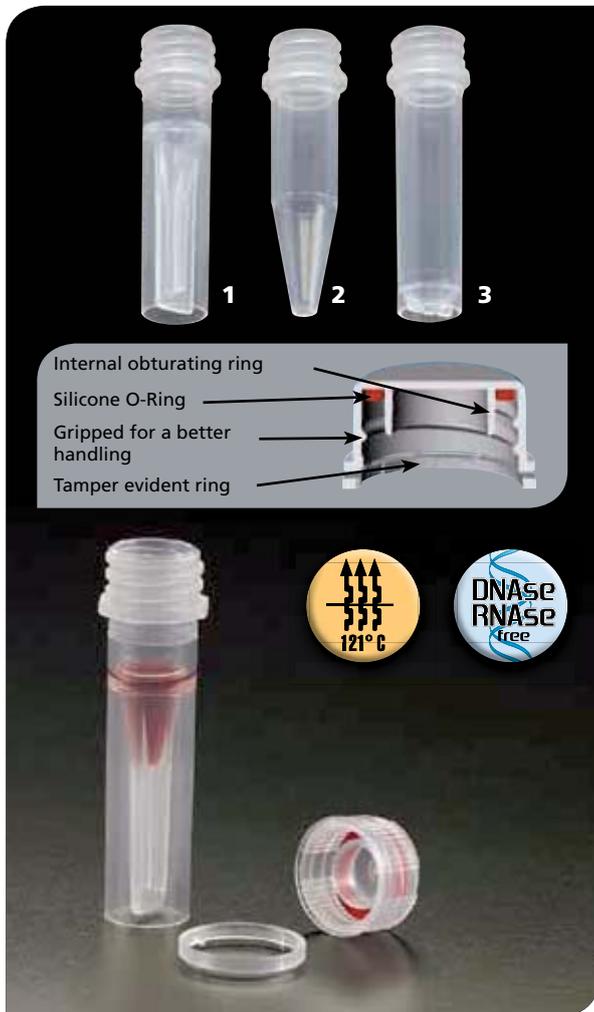
Graduated models feature a frosted area for writing.

The non-graduated model incorporates an external grip for an easy handling.

Microtubes are supplied capped, in bags of 50 units.

code	description	graduation	case quantity	case weight	case volume
<b>409115/4</b>	0.5 ml skirted	<b>STERILE</b> ✗	50 x 50	5.89	0.029
<b>409115/2</b>	1.5 ml non skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029
<b>409115/6</b>	2 ml skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029
<b>409115/3</b>	2 ml non skirted	<b>STERILE</b> ✓	50 x 50	5.89	0.029





Screw cap until locking ring clicks over serrated tube neck. Contents are now protected until cap is removed and tamper-evident ring is detached.

### Self standing, screw thread tamper evident microtubes

Microtubes and caps are made of autoclavable ultra clear polypropylene. Ribbed cap with internal silicone O-ring for a positive **leakproof seal**. Super fast ¼ turn thread design. **Tamper evident** seal which notices if microtube has been opened.

**Rnase, Dnase and Pyrogen free.**

They can be used at extreme temperatures from  $-196^{\circ}$  to  $+121^{\circ}\text{C}$ .

Resistance to centrifugation: **17,000 g**.

Microtube dimensions: 11 x 44 mm.

Cap dimensions (with tamper-evident ring): 15 x 9 mm.

Used on:

- Test of fertility and DNA testing
- Packaging of diagnostic kits and reagents
- Crime Laboratories

mod.	code	volume ml	case quantity	case weight	case volume
1	<b>409110.1T</b>	0,5	1.000	2,06	0,013
2	<b>409110.2T</b>	1,5	1.000	2,06	0,013
3	<b>409110.4T</b>	2	1.000	2,06	0,013

See our wide range of microcentrifuge tubes on Chapter 7. Tubes and Microtubes





### CRYOINSTANT: Porous beads for microbiological culture preservation

CryoInstant is an excellent preservation system for storing microbiological culture (for example fungus on sporulation phase), consisting on **2 ml cryovials** containing 25 porous beads and cryopreservative-added broth.

With these vials we can:

- Get a **perfect freezing storage system**.
- Obtain up to **25 replicates** from the original microorganism, to use them during many years
- **Ease the recovery** of the **stored strain** streaking an inoculated bead directly onto solid media
- **Prevent changes** and **repetitive thawing / freezing** of the rest of beads
- **Avoid the growth** of **ice** when recovering,
- **Improve recovery rates** of frozen cultures by adding cryopreservative to broth
- **Minimise the risk of cross contamination**,
- **Save space** in the freezers when storing.

The external thread cryovials are made of polypropilene. Their smooth inner surface prevents from contamination. Their caps embody a silicone washer to ensure a positive leakproof seal. Tubes and caps withstand up to  $-190^{\circ}\text{C}$ .

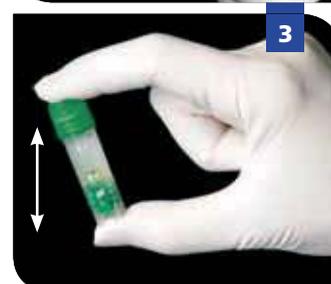
In order to ease the classification of the samples, we offer the possibility to get cryovials with caps and beads in five different colours: every code displays caps and beads from a single and same colour (excepting code **409113/6**, which is an assortment), allowing a fast and easy identification of the samples, and providing a system whereby users are able to code different bacterial species, different samples, different laboratories,... And even more: with colour coded inserts (described on page 202) a further classification can be made.

Cryovials are presented in carton boxes (resistant to  $-100^{\circ}\text{C}$ ; dimensions: 150x150x55 mm) with 100 units; boxes are furtherly described in page 212. Each box is supplied plastic-wrapped and labelled with code reference, batch, expiration date and specifying the colour of the caps and beads.

code	beads and cap colour	case quantity	case weight	case volume
<b>409113/1</b>	white	100	0.22	0.001
<b>409113/2</b>	blue	100	0.22	0.001
<b>409113/3</b>	yellow	100	0.22	0.001
<b>409113/4</b>	red	100	0.22	0.001
<b>409113/5</b>	green	100	0.22	0.001
<b>409113/6</b>	assorted: 5 colours x 20 cryovials	100	0.22	0.001

#### Way of use:

- 1 Take the sample from the strain with a loop (please see our loops on page 31),
- 2 Inoculate the cryovial by putting the loop in contact with the broth,
- 3 Close the cryovial and shake it gently in order to permeate the strain into the beads,
- 4 Extract the cryopreservative-added broth with a Pasteur pipette (see our plastic pipettes on pages 191-195),
- 5 Close the cryovial and take it to the freezer;
- 6 Every time we need to reproduce the strain, we will take a bead with a loop or a forceps.
- 7 We will put it down on a Petri dish with culture medium, attempting to put in contact all the surface of the bead with the medium.





### Polycarbonate racks for cryovials

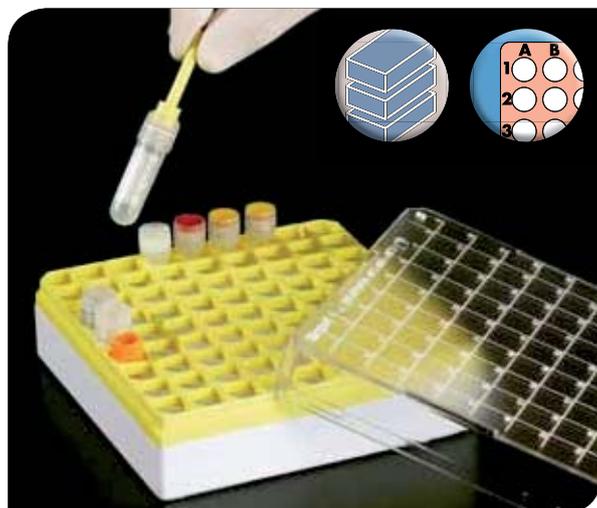
These racks provide ultra low temperature storage (**from -196°C to +121°C**), holding 2 or 5 ml cryovials (depending on the model).

Compatible with other storage systems, they can be sterilised using **autoclave** protocols.

They can also be immersed in liquid nitrogen, where its design means minimal issues with excess liquid on their removal.

code	capacity*	colour	dimensions mm	max. tubes capacity	max. tubes height	case quantity	case weight	case volume
<b>M-061NA</b>	25	orange	75 x 75 x 52	2 ml	48	5	0.33	0.003
<b>M-061AM</b>		yellow				5	0.33	0.003
<b>M-062B</b>	81	blue	132 x 132 x 53	2 ml	48	5	1.02	0.006
<b>M-062R</b>		red				5	1.02	0.006
<b>M-063B</b>	81	blue	132 x 132 x 95	5 ml	93	5	1.36	0.010
<b>M-063R</b>		red				5	1.36	0.010
<b>M-064V</b>	100	green	132 x 132 x 53	2 ml	48	5	0.90	0.006
<b>M-064AM</b>		yellow				5	0.90	0.006

\* The capacity of codes M-064V and M-064AM is halved when used with capped cryovials with external threads.



### Polystyrene racks for cryovials

Made of polystyrene, those boxes are designed to hold 1 and 2 ml cryovials at temperatures from -80 °C to +80 °C. Stackable.

Boxes with white base and numbered inner rack. Boxes are stackable and have air vents.

Covers are keyed to the base to prevent misalignment.

Each box is supplied with an innovate vial picker for easy vial removal.

Dimensions: 133 x 133 x 52 mm.

code	colour	case quantity	case weight	case volume
<b>M-036B</b>	blue	6	1.20	0.007
<b>M-036P</b>	pink	6	1.20	0.007
<b>M-036AM</b>	yellow	6	1.20	0.007



### Polycarbonate racks for cryovials

Made of extra strong polycarbonate, these boxes are designed to be used at temperatures between  $-190^{\circ}\text{C}$  and  $+121^{\circ}\text{C}$  and are **autoclavable**. Racks can hold either 81 or 100 tubes from 1 ml to 5 ml.

They can be immersed in liquid nitrogen. Transparent covers are printed with an alphanumeric grid.

Boxes made to accept 81 tubes have a white base and a coloured grid (in which each well is numbered) (A type).

Boxes made to accept 100 tubes\* have a coloured base, with each place numbered in the lid, instead of a grid (B type).

Each box is supplied with an innovative vial picker for easy vial removal (see C).

Boxes are stackable and have air vents.

Covers are keyed to the base to prevent misalignment.

code	colour	case quantity	case weight	case volume
<b>For 1.2 and 2 ml cryovials. 81 holes. Dimensions: 133 x 133 x 52 mm</b>				
M-033AM	yellow	4	1.20	0.007
M-033R	red	4	1.20	0.007
M-033V	green	4	1.20	0.007
<b>For 3.4 and 5 ml cryovials. 81 holes. Dimensions: 133 x 133 x 95 mm</b>				
M-034AM	yellow	10	2.45	0.022
M-034R	red	10	2.45	0.022
M-034V	green	10	2.45	0.022
<b>For 1.2 and 2 ml cryovials. 100 holes. Dimensions: 133 x 133 x 52 mm</b>				
M-035AM	yellow	4	1.11	0.007
M-035R	red	4	1.11	0.007
M-035V	green	4	1.11	0.007

\* The capacity of codes M-035AM, M-035R and M-035V, is halved when used with capped cryovials with external threads.

### Polycarbonate rack for cryovials

Made of polycarbonate, this box is designed to store up to 42 cryovials (10 ml, code 401410) at temperatures between  $-190^{\circ}\text{C}$  and  $+121^{\circ}\text{C}$ . **Autoclavable** and stackable.

Transparent cover is printed with the indication of the well number from 1 to 42. White base and blue grid, with numbered wells.

They can be immersed in liquid nitrogen.

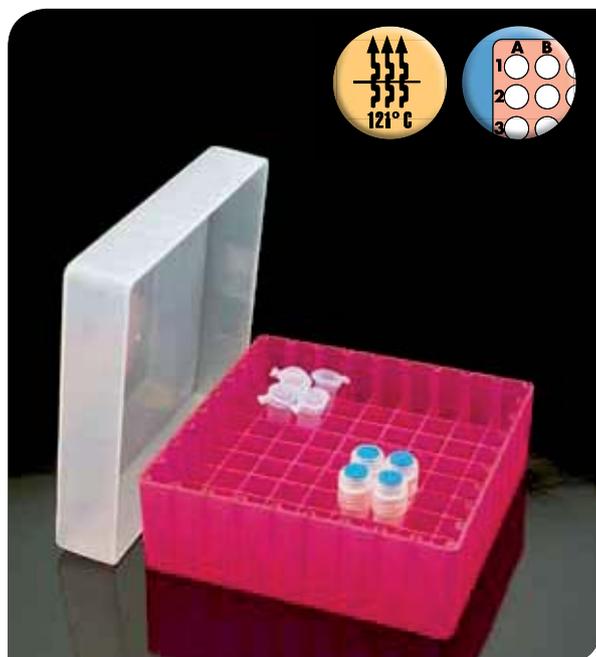
Upon removal of the bath, excess liquid is discharged through vents incorporated.

Cover is keyed to the base to prevent misalignment.

Dimensions: 133 x 133 x 95 mm

code	description	case quantity	case weight	case volume
M-036A	PC rack for 10 ml cryovials	500	0.024	0.0001





### Rack 9x9 height 45

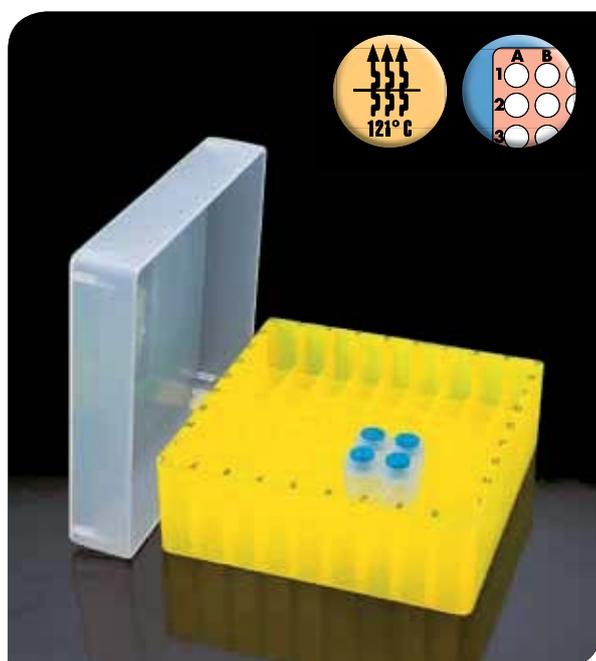
Polypropylene rack. Dimensions with lid: 133 x 133 x 45 mm. Available in fluorescent colours with transparent lid to help identification.

**It resists -196° C** and is **autoclavable** up to 121 C. Sections will hold 81 microtubes (0.5, 1.5 or 2 ml) or cryotubes (1.2 ml) up to 12mm diameter and 42 mm height.

The capacity is reduced when storing external screw cryotubes.

It embodies an alpha numeric grid printed on the base and over the upper rims for a clearer identification of samples. Ideal for our references **200400, 200401, 200405, 200407, 200410, 4092.2N, 4092.5N, 4092.6N, 4092.6NS, 409001**, and series, etc.

code	colour	quantity	weight	volume
<b>M-020AM</b>	yellow	1	0.12	0.00076
<b>M-020N</b>	natural	1	0.12	0.00076
<b>M-020R</b>	red	1	0.12	0.00076
<b>M-020V</b>	green	1	0.12	0.00076



### Rack 9x9 height 50

Polypropylene rack. Dimensions with lid: 133 x 133 x 53 mm. Available in fluorescent colours with transparent lid to help identification.

**Resists -196° C** and is **autoclavable** up to 121 °C. Sections will hold 81 microtubes (0.5, 1.5 or 2 ml) or cryotubes (1.2 or 2 ml) up to 12.5 mm diameter and 50 mm height.

The capacity is reduced when storing external screw cryotubes.

It embodies an alpha numeric grid printed on the base and over the upper rims for a clearer identification of samples.

Ideal for our references **200400, 4092.2N, 4092.5N, 4092.6N, 4092.6NS, 409001, 409002, 409002.1, 409110.1, 409111/2**, and series, etc.

code	colour	quantity	weight	volume
<b>U-9950CAM</b>	yellow	1	0.15	0.00089
<b>U-9950CN</b>	natural	1	0.15	0.00089
<b>U-9950CNA</b>	orange	1	0.15	0.00089
<b>U-9950CR</b>	red	1	0.15	0.00089
<b>U-9950CV</b>	green	1	0.15	0.00089



### Rack 9x9 height 95

Polypropylene rack. It can be frozen down to **-196°C**, and **autoclaved** up to +121°C.

Dimensions with lid: 133 x 133 x 95 mm

Available in fluorescent colors with translucent-transparent lid.

81 sections will hold microcontainers up to 12 mm diameter and 93 mm high: screw cap microtubes, cryovials (even those of 4 and 5 ml), snap cap microtubes, and short -medium sized tubes (codes **300500, 400500, 401100, 300300, 300800, 300800.2, 300700, 400800, 400700...**).

code	colour	bag quantity	bag weight	bag volume
<b>U-9581N</b>	natural	1	0.31	0.0026
<b>U-9581NB</b>	blue	1	0.31	0.0026
<b>U-9581AM</b>	yellow	1	0.31	0.0026
<b>U-9581CV</b>	green	1	0.31	0.0026

### Rack 8x8 round hole height 45

Polypropylene rack, **autoclavable** up to 121 °C.

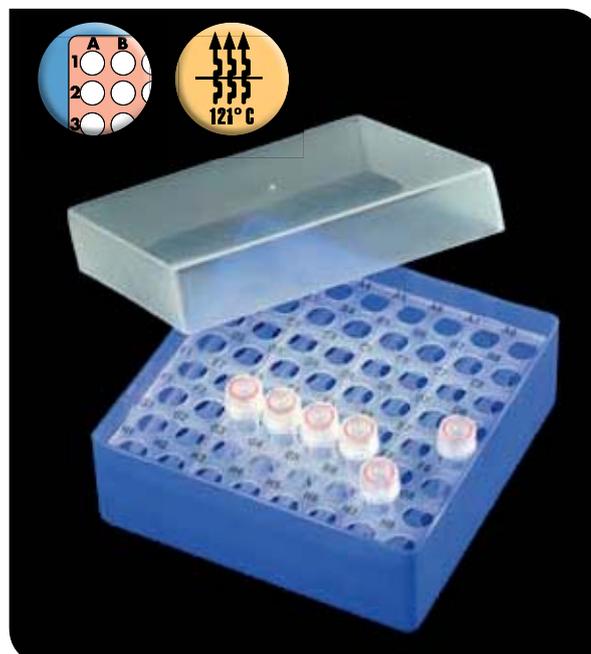
Dimensions with lid: 133 x 133 x 53.

Available in fluorescent colours with transparent lid to help identification. **Resists -196° C.**

Sections will hold 64 microtubes (0.5, 1.5 or 2 ml) or cryotubes (1.2 ml) up to 11 mm diameter and 42 mm height. Ideal for our references **200400, 4092.1N, 4092.1NS, 4092.2N, 4092.6N, 4092.6NS, 409111/1** and series.

Alphanumeric identification.

code	colour	quantity	weight	volume
<b>U-8845A</b>	blue	1	0.15	0.00076
<b>U-8845AM</b>	yellow	1	0.15	0.00076
<b>U-8845N</b>	natural	1	0.15	0.00076
<b>U-8845V</b>	green	1	0.15	0.00076



### Rack 8x8 round hole height 50

Polypropylene rack, **autoclavable** up to 121 °C.

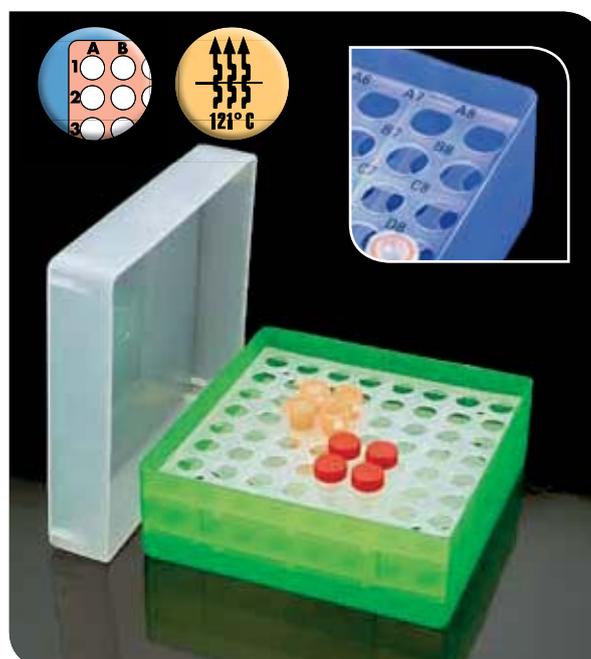
Dimensions with lid: 133 x 133 x 53.

Available in fluorescent colours with transparent lid to help identification. **Resists -196° C.**

Sections will hold 64 microtubes (0.5, 1.5 or 2 ml) or cryotubes (1.2 or 2 ml) up to 11 mm diameter and 50 mm height. Ideal for our references **200400, 4092.2N, 4092.5N, 4092.6N, 4092.6NS, 408003, 409110.1, 409110.2, 409110.3, 409110.4, 409110.5, 409111/1, 409111/2, 409111/3, 409111/4, 409111/5, 409111/6** and series, etc.

Alphanumeric identification.

code	colour	quantity	weight	volume
<b>U-8850A</b>	blue	1	0.15	0.00089
<b>U-8850N</b>	natural	1	0.15	0.00089
<b>U-8850NA</b>	orange	1	0.15	0.00089



### Rack 7x7 height 50

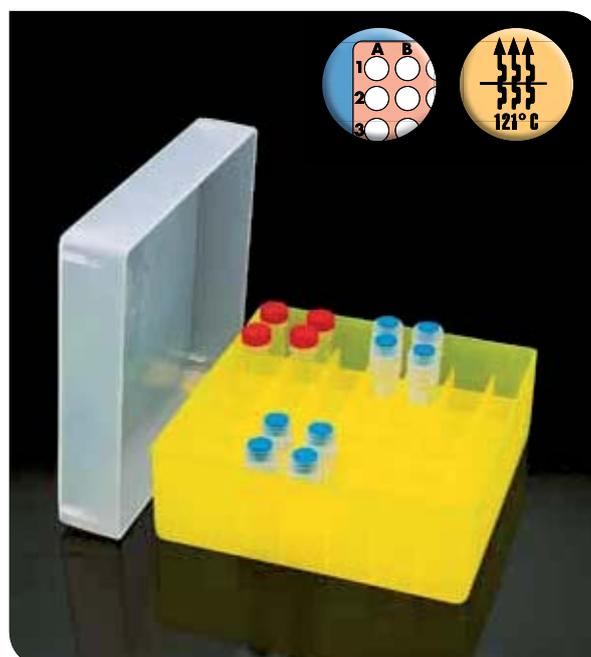
Polypropylene rack, **autoclavable** up to 121 °C.

Dimensions with lid: 133 x 133 x 53.

Available in fluorescent colours with transparent lid to help identification. **Resists -196° C.**

Sections will hold 49 microtubes (0.5, 1.5 or 2 ml), cryotubes (1.2 or 2 ml), or low volume tubes, up to 16 mm diameter and 50 mm height. Ideal for our references **409002, 409002.1, 409104.1, 409106.1, 409106.2**, etc.

code	colour	quantity	weight	volume
<b>U-7750A</b>	blue	1	0.15	0.00089
<b>U-7750AM</b>	yellow	1	0.15	0.00089
<b>U-7750N</b>	natural	1	0.15	0.00089
<b>U-7750NA</b>	orange	1	0.15	0.00089





### Freezing cardboard storage box, pre-assembled compartments

Designed for storage and preservation of frozen samples. Made of white treated cardboard and covered by special white paper hand-stuck and hand-assembled for a better quality. Pre-assembled compartments.

Resist temperatures up to  $-100^{\circ}\text{C}$ . Ideal for microtubes and cryovials.

There are alphanumeric identifications printed on each box.

Suitable for the racks of freezer chests. The models **M-600** and **M-610** are silk screen printed on the base and lid.

The other models have no printings.

These box can be custom-designed made, ask to our commercial department.

code	external dimensions mm	grid num.	holes mm	case quantity	case weight	case volume
<b>M-600</b>	150 x 150 x 55	10 x 10	12	10	2.00	0.026
<b>M-610</b>	150 x 150 x 100	10 x 10	12	10	3.00	0.048
<b>M-607</b>	134 x 134 x 47	10 x 10	10	10	4.80	0.050
<b>M-606</b>	134 x 134 x 57	10 x 10	10	10	4.80	0.050
<b>M-603</b>	134 x 134 x 75	9 x 9	12	10	5.00	0.050
<b>M-604</b>	134 x 134 x 79	9 x 9	12	10	5.00	0.050



### Rack 10x10 height 37

Polypropylene rack.

Dimensions with lid: 133 x 133 x 37 mm.

Available in fluorescent colours with transparent lid to help identification.

**Resists  $-196^{\circ}\text{C}$  and autoclavable up to  $121^{\circ}\text{C}$ .** Sections will hold 100 microtubes up to 10 mm diameter and 34 mm height. Ideal for our references **4091.1N**, **4092.1NS** and **900117**, etc.

code	colour	quantity	weight	volume
<b>U-0537A</b>	blue	1	0.12	0.00062
<b>U-0537N</b>	natural	1	0.12	0.00062
<b>U-0537NA</b>	orange	1	0.12	0.00062



### Racks with lid

Polypropylene rack, **autoclavable** and designed for storage of samples down to  $-90^{\circ}\text{C}$ . The lid is jointed to the rack by hinges. Available in fluorescent colours.

The racks are alphanumerically matrixed and are designed for 1.5 and 2 ml microtubes or 2.0 ml cryotubes; and we can supply two different models which can accommodate 50 and 100 tubes respectively.

Dimensions: 71 x 153 x 53 mm (50 wells).  
140 x 153 x 53 mm (100 wells).

code	colour	holes	case quantity	case weight	case volume
<b>M-500</b>	natural	50	20	2.70	0.014
<b>M-501</b>	neon green	50	20	2.70	0.014
<b>M-502</b>	neon pink	50	20	2.70	0.014
<b>M-503</b>	neon yellow	50	20	2.70	0.014
<b>M-510</b>	natural	100	20	4.00	0.030
<b>M-511</b>	neon green	100	20	4.00	0.030
<b>M-512</b>	neon pink	100	20	4.00	0.030
<b>M-513</b>	neon yellow	100	20	4.00	0.030

Minimum order quantity: 5 and multiples of 5 up to 20. From 20, multiples of 20.

### Rack 4x4 height 45

Polypropylene rack.

Dimensions with lid: 67 x 67 x 45 mm.

Available in fluorescent colors with transparent lid. It can be frozen up to  $-196^{\circ}\text{C}$ , and **autoclaved** up to  $+121^{\circ}\text{C}$ .

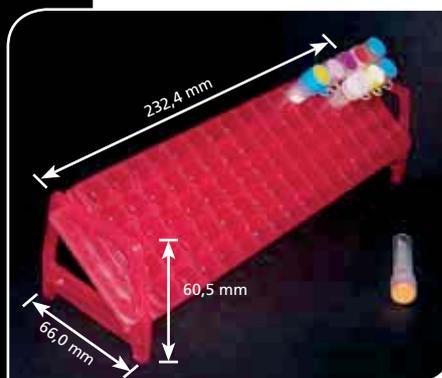
16 sections (15x15 mm) will hold screw cap microtubes (range **409110.1** for example), cryovials (as code **409001**), snap cap microtubes (see codes **200400** or **4092.2N**), and short tubes (codes **300500**, **400500**, **401100**).

Black color rack includes a black lid and is perfect to store light sensitive samples; it can be combined with our opaque microtubes (range **409113.1**)

It may be used with taller tubes as the lid lies on their caps (up to 60 mm high).

code	colour	bag quantity	bag weight	bag volume
<b>U-4445N</b>	natural	5	0.31	0.00001
<b>U-4445A</b>	blue	5	0.31	0.00001
<b>U-4445AM</b>	yellow	5	0.31	0.00001
<b>U-4445NE</b>	black	5	0.31	0.00001





### Reversible racks with removable handles

Made of polypropylene, **autoclavable** up to 121° C.

The racks have two sides for different tubes: one side holds up to 80 tubes of 12 mm diameter (for example 10 x 75 mm or 12 x 75 mm tubes, microtubes, etc.) and the other side holds up to 60 microtubes or PCR (8 mm Ø, 0.2 or 0.5 ml).

By removing the handles, units can be firmly anchored laterally to one another and more units can be added on top of each other, thanks to small pins supplied with the racks.

code	colour	case quantity	case weight	case volume
<b>M-563A</b>	blue	10	1.60	0.008
<b>M-563NA</b>	orange	10	1.60	0.008
<b>M-563P</b>	pink	10	1.60	0.008



See our microtubes for centrifugation on chapter 7. Tubes and Microtubes

### Microtube racks with lift-off telescopic lid

Made of **autoclavable** polypropylene, those racks are designed for long-term storage of samples at temperatures down to -90°C.

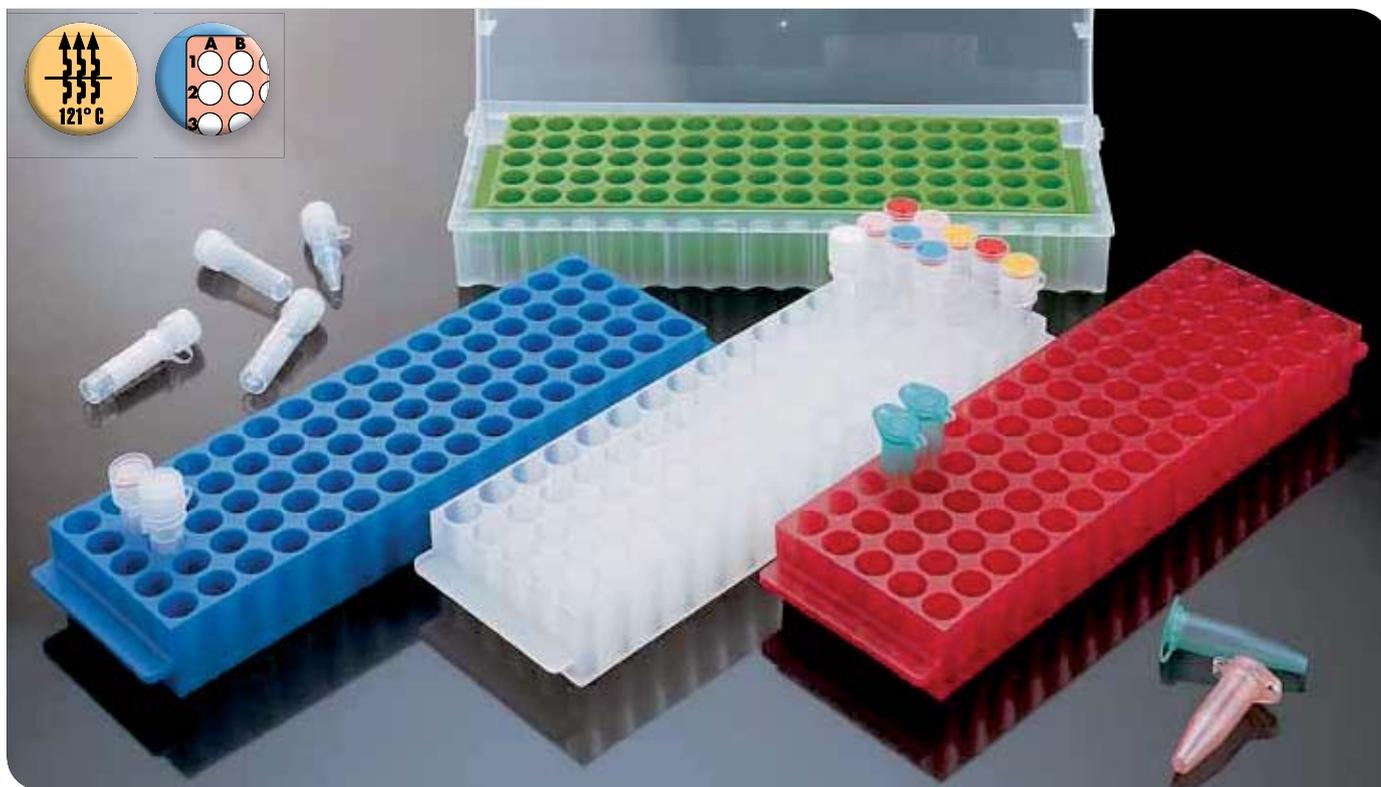
Model **M-450** can accommodate 50 microtubes of 0.5 ml (hole diameter 10 mm).

Model **M-410** can accommodate 50 microtubes of 1.5/2.0 ml (hole diameter 12 mm).

Lids have a moulded-in alphanumeric location identification system with a clear centre panel for easy tube viewing.

Four frosted side panels and a frosted rim on the edges of the lid provide additional labeling options.

code	dimensions mm	case quantity	case weight	case volume
<b>M-450</b>	120 x 60, height 45	5	0.40	0.002
<b>M-410</b>	140 x 73, height 42	5	0.61	0.0025



### 80 well racks

Made of **autoclavable** polypropylene, those racks are designed for freezer storage and are rated to  $-80^{\circ}\text{C}$ . Racks are designed to accommodate microtubes of diameter up to 11 mm. They are space-saving, as they feature 80 wells in a 5 x 16 configuration. An alpha-numeric matrix allows accurate sample identification. Lateral handles allow easy handling of the racks. Racks can be used alone or placed into the box **M-011.1** (made of translucent plastic). Racks are compatible with the Gilson FC80 dispenser, for example.

code	description	dimensions mm	case quantity	case weight	case volume
<b>M-010.1</b>	yellow rack	225 x 65 x 27	5	0.85	0.010
<b>M-010.2</b>	natural rack	225 x 65 x 27	5	0.85	0.010
<b>M-010.5</b>	blue rack	225 x 65 x 27	5	0.85	0.010
<b>M-010.6</b>	red rack	225 x 65 x 27	5	0.85	0.010
<b>M-010.7</b>	green rack	225 x 65 x 27	5	0.85	0.010
<b>M-011.1</b>	box with lid	230 x 85 x 60	5	2.00	0.029

### Microtube storage racks in hinged boxes

Made of white polypropylene. Designed to hold 24 or 48 microtubes or cryovials of 1.5/2.0 ml sizes.

Tubes are presented on four levels for better sample viewing.

Each well is numbered.

**Model M-052** consists of one 24 hole-rack supplied in a white hinged box with transparent cover; model **M-053** consists of two 24-hole racks, also housed in a white hinged box with transparent cover.

Racks are removable from boxes and are stackable.

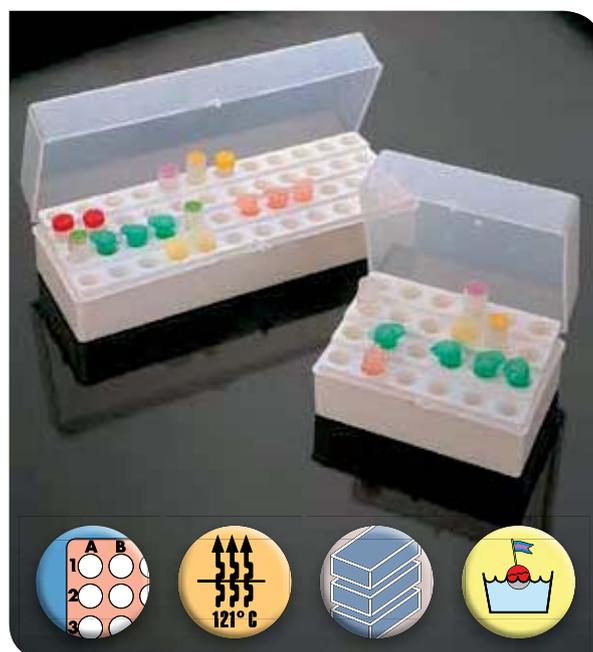
They float in water bath and can incorporate dry ice for use with frozen samples on the bench.

Fully autoclavable ( $121^{\circ}\text{C}$ ) and freezable down to  $-90^{\circ}\text{C}$ .

Dimensions: M-052: 120 x 85 x 60 mm.

M-053: 235 x 85 x 60 mm.

code	description	case quantity	case weight	case volume
<b>M-052</b>	rack for 24 microtubes	10	2.00	0.008
<b>M-053</b>	rack for 48 microtubes	5	1.30	0.008





### Incubation rack with storage box

Made of tough polypropylene, this system consists of a rack housed in an hinged storage box with transparent cover.

The rack is designed with 24 larger holes and 14 smaller ones, and accommodates 1.5/2.0 or 0.5 ml tubes.

This floating rack has moulded-in buoys which provide exceptional stability in water baths.

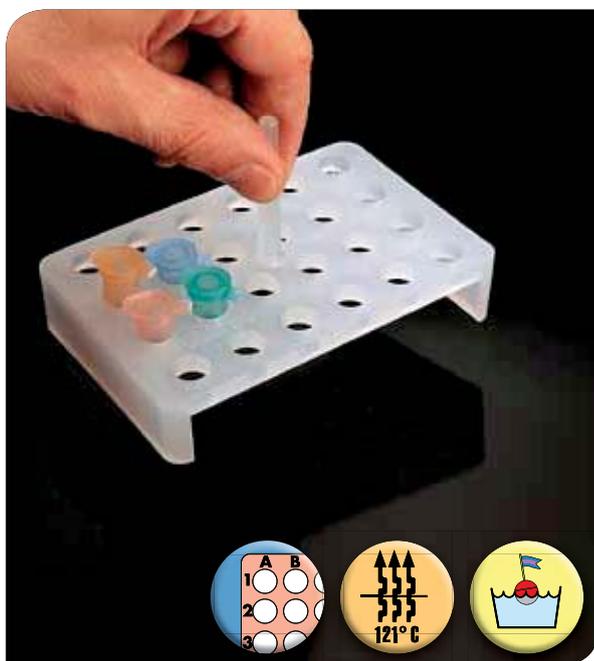
The rack is designed with an open bottom which allows ice in an ice bath to pack around each tube.

The box can also be filled with ice and used as a self contained ice bath.

A conventional use of the rack on the bench top is also possible. Will resist boiling, **autoclaving** and freezing.

It resists from -90 to 121°C. Dimensions: 115 x 77 x 27 mm.

code	description	case quantity	case weight	case volume
<b>M-012.1</b>	incubation rack with storage box	5	3.41	0.002



### 24 well incubation rack

Made of **autoclavable** polypropylene.

This floating rack will incubate up to 24 microtubes in a water bath and can accommodate either 1.5 ml or 0,5 ml tubes.

Tubes are held snugly and then released when the rack is pressed down on a benchtop.

The rack is alphanumerically labelled for better sample identification. Dimensions: 119 x 78 mm.

code	description	case quantity	case weight	case volume
<b>M-022</b>	incubation rack	4	0.42	0.002



### Round incubation racks

Made of **autoclavable** polypropylene, those racks are designed to hold either 8 or 20 microtubes (1.5 ml) in 10.8 mm holes.

Even when the rack is fully loaded, tubes are completely immersed while tops rest above the rack, floating in a beaker of water.

Perfect for use in benchtop incubation.

The rack is easily unloaded by lightly pressing it down against the bench until the legs touch, releasing the tubes.

Racks are 6.4 mm thick with 19 mm long legs and a central handle.

code	capacity	Ø rack	case quantity	case weight	case volume
<b>M-024</b>	8 tubes	66	4	0.20	0.003
<b>M-026</b>	20 tubes	105	4	0.20	0.003

### Isofreeze reversible racks with lid

Manufactured from virtually unbreakable polycarbonate and filled with a non-toxic gel, those Isofreeze temperature maintenance racks provide consistent thermal protection for PCR reagents, cells, enzymes or other temperature sensitive agents when removed from the freezer or refrigerator for extended periods of time, and provide safe storage on the event of freezer failure. Each rack can accommodate up to 20 1.5/2.0 ml microtubes on one side, or 20 0.5 ml microtubes on the reverse side.

Racks feature a transparent lid for better sample viewing. Each well in the rack is numbered.

Available in two temperature ranges.

Model **M-570** (white) will maintain a temperature of 0°C on the bench top for 5 hours.

Model **M-571** (blue) will maintain a temperature between -10°C and -20°C on the bench top up to 3 hours.

Dimensions with lid: 108 x 172 x 104.

code	description	case quantity	case weight	case volume
<b>M-570</b>	white isofreeze rack	1	1.30	0.005
<b>M-571</b>	blue isofreeze rack	1	1.30	0.005



### 8 well beta-radiation shielding rack with lid

Made of acrylic resin, this 8-well rack with lid provides radiation shielding for the user against beta radiation. The rack holds two rows of four 1.5 / 2.0 ml tubes (hole diameter 12 mm). Each well is numbered for better sample identification. Dimensions: 86 x 38 x 55 mm. Hole diameter: 12 mm.

code	description	case quantity	case weight	case volume
<b>M-014.1</b>	8 well beta-radiation shielding racks	1	0.23	0.0001



### 24-well beta-radiation shielding rack with lid

Made of acrylic resin, this 24-well rack with lid provides radiation shielding for the user against beta radiation. The rack holds six rows of four 1.5/2.0 ml tubes (hole diameter 12 mm) plus 15 0.5 ml tubes (hole diameter 7.5 mm) in between the 24 larger holes. Each well is alphanumerically identified for better sample location. Stackable. Dimensions: 125 x 90 x 80 mm.

code	description	case quantity	case weight	case volume
<b>M-014.2</b>	39 well beta-radiation shielding racks	1	0.75	0.001





### 20 well interlocking tube racks

Made of blue **autoclavable** polypropylene.

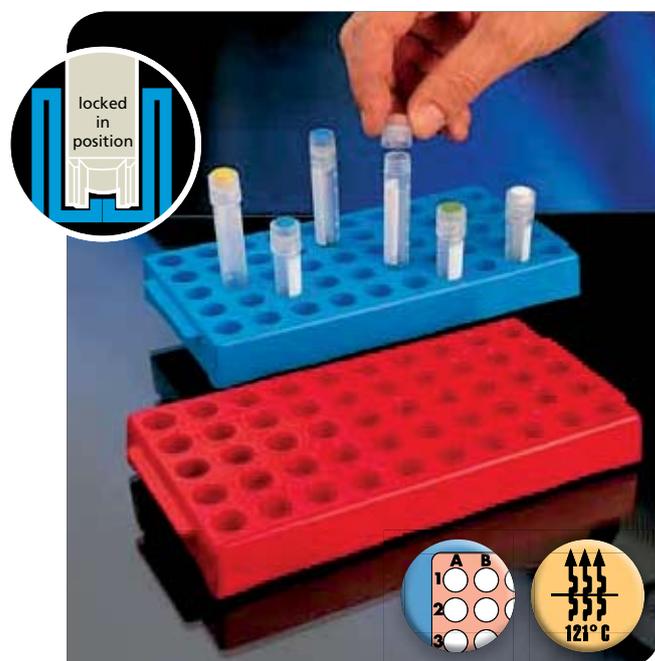
These racks slide together on both sides to allow the user to attach several for larger experiments.

They are designed to accommodate 1.5/2.0 ml Eppendorf type tubes on two levels of 10 wells each, with easy-to-read numbers for better tube viewing and identification.

The innovative front finger slot makes them easy to handle when working with gloves.

Dimensions: 210 x 90 x 48 mm.

code	description	case quantity	case weight	case volume
<b>200420</b>	blue 20 hole rack	6	0.42	0.005



### 50 well microtube racks

Made of **autoclavable** polypropylene, these racks are designed for use with our tubes presented on page 36 and successive. They can hold 50 tubes in a 10 x 5 configuration. These racks allow easy one handed opening and closing of tubes thanks to an innovative locking system which ensures that tubes will securely lock in each well and will not turn. Each place is identified with an alphanumeric index for better sample location. Racks have strong handles for better handling and are stackable.

Dimensions: 100 x 250 x 25 mm.

code	description	case quantity	case weight	case volume
<b>M-028.5</b>	blue rack	4	0.70	0.005
<b>M-028.6</b>	red rack	4	0.70	0.005



### Styrofoam racks with lid

Made of white heavy Styrofoam, these racks are designed for long-term storage of microtubes and cryovials in the freezer.

Both racks accommodate tubes maximum 44 mm high.

Diameter of the well: 13mm.

Model **G-050** (50 wells) is suitable for 1.5/2.0 ml microtubes and/or 1.2 ml cryovials. Dimensions: 21 x 10.7 x 6.5 cm.

Model **G-100** (100 wells) is suitable for 1.5/2.0 ml microtubes. Dimensions: 33.5 x 9.5 x 6.8 cm.

Racks are alpha-numerically matrixed for better sample location. Stackable, light-weighted and economical.

code	description	case quantity	case weight	case volume
<b>G-050</b>	50 positions	10	0.50	0.043
<b>G-100</b>	100 positions	10	0.70	0.060

### Isofreeze Rack with temperature indicator

Manufactured from polypropylene, this rack is filled with a non-toxic gel that maintains 4°C temperature for almost three hours and a half when the rack is removed from the freezer (or in case of freezer failure), protecting PCR reagents, cells, enzymes,... from fast temperature changes.

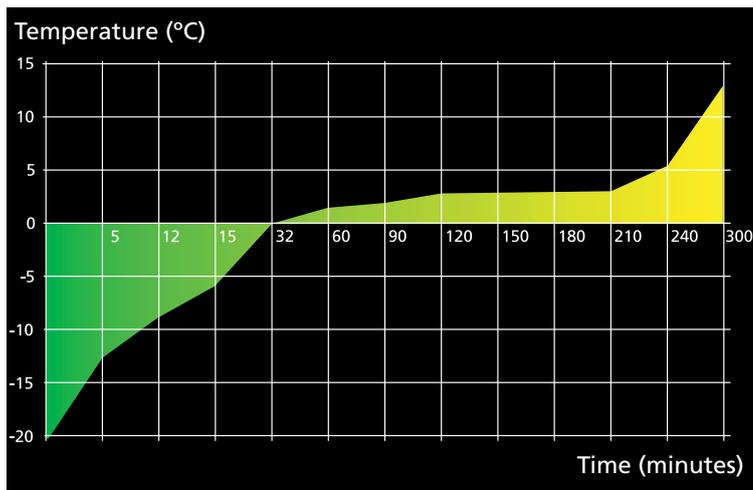
Moreover, the plastic changes its colour from green to yellow as long as the temperature of the rack changes (see figure). It can hold up to 96 0,2 ml single microtubes, strips, and plates.

Dimensions with lid: 141 x 99 x 44 mm.

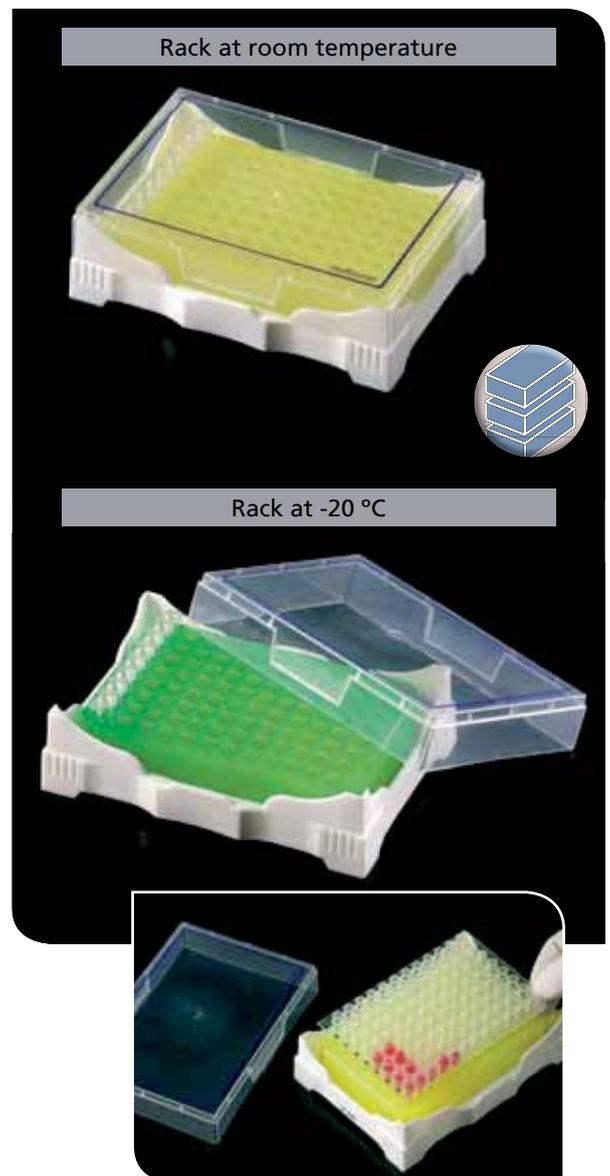
Dimensions without lid: 141 x 99 x 38 mm.

ATTENTION: Freeze for a minimum of eight hours at -20°C before use. Keep it covered while being used.

Store at the freezer while not being used



code	description	case quantity	case weight	case volume
<b>M-572</b>	yellow-green isofreeze rack	2	0.64	0.0005



### 96 well PCR rack

Base and cover made of **autoclavable** polypropylene.

Designed for storing and working 0,2 ml PCR tubes, separate or in strips. 96-well plates can also be accommodated.

Both base and cover have an alphanumeric identification.

Once covered they are stackable.

Racks can be horizontally attached to each other in order to build-up any configuration.

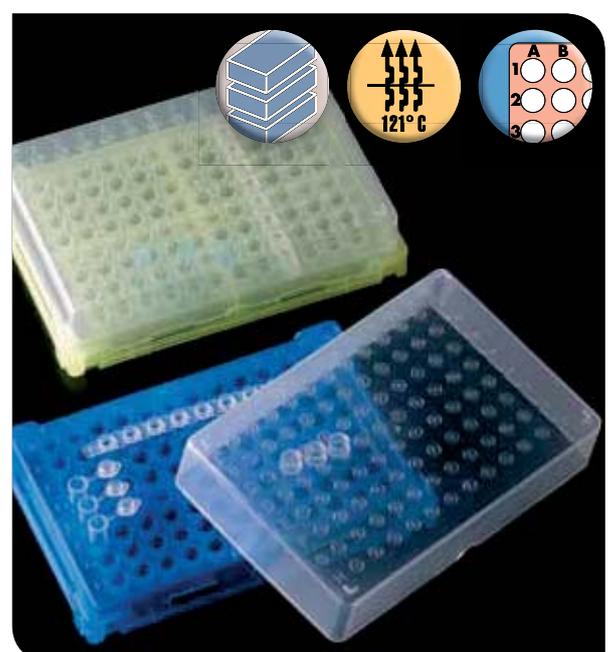
Dimensions with cover: 132 x 91 x 32 mm

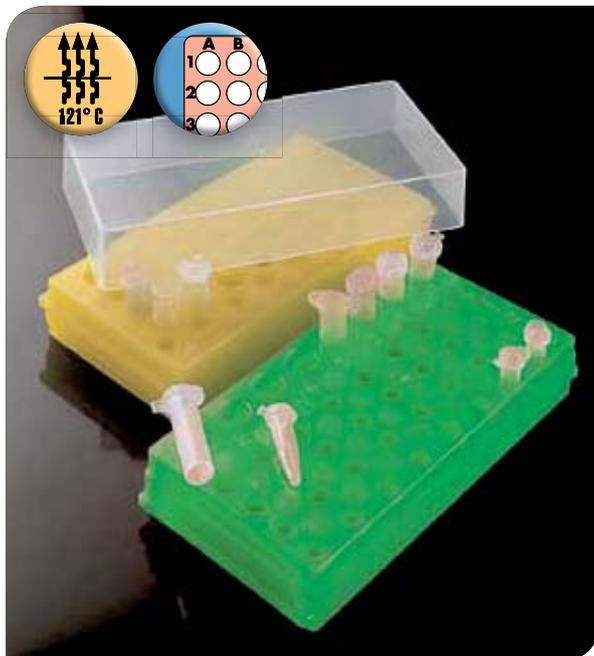
It withstands from -90°C to +121°C.

code	description	case quantity	case weight	case volume
<b>M-585</b>	blue PCR rack	20	3.0	0.02
<b>M-581</b>	yellow PCR rack	20	3.0	0.02

Minimum order quantity: 5 and multiples of 5 up to 20.

From 20, multiples of 20





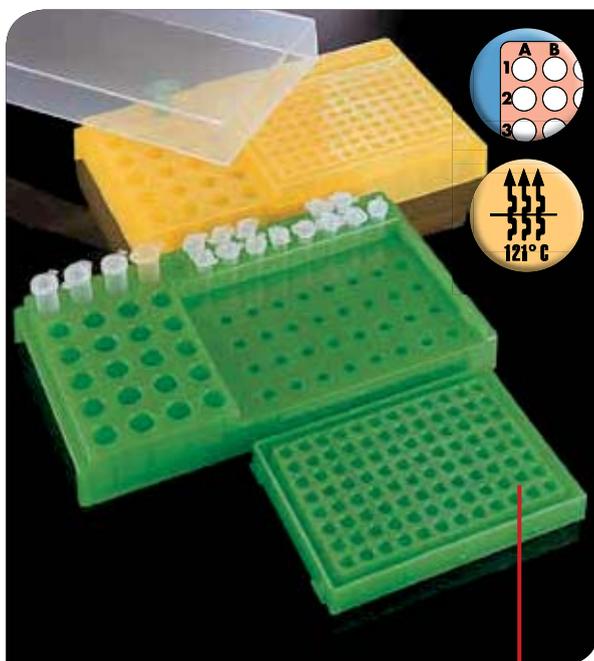
### Reversible 32+8 microtube racks with lid

This rack made of **autoclavable** (from -90 to +121°C) polypropylene is supplied with a clear polypropylene lid for better sample viewing. Side one has 32 wells for 0.5ml tubes plus an additional 8 wells across for 1.5/2.0 ml tubes. Side two has the opposite configuration of 32 wells for 1.5/2.0 tubes and 8 wells for 0.5 ml tubes. Both sides are alphanumerically labeled for better sample location.

Racks have frosted writing patches on all four sides for smear resistant labeling. Small side handles.

Dimensions: 170 x 80 x 27 mm.

code	description	case quantity	case weight	case volume
<b>M-019AM</b>	yellow rack	5	0.80	0.007
<b>M-019R</b>	pink rack	5	0.80	0.007
<b>M-019V</b>	green rack	5	0.80	0.007

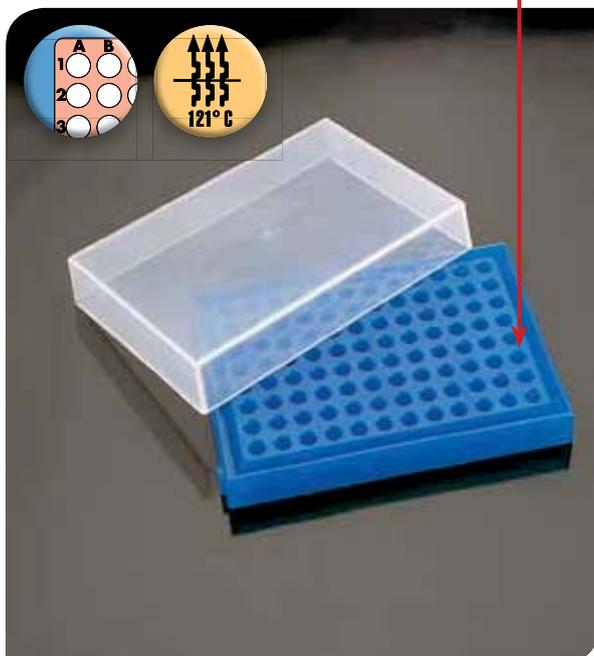


### PCR workstations

**Autoclavable** polypropylene. This storage/working rack, with lid, is designed to work with different PCR volumes at the same time. It can accommodate up to 32 individual 0.2 ml PCR tubes, 24 1.5/2.0 ml and 16 0.5 ml microtubes. Tube wells are alpha-numerically matrixed with raised bold type for accurate sample identification. The rack also has a transparent lid for easy viewing of samples. Frosted writing panels on four sides allow labelling or writing. The rack is supplied with a removable rack accommodating 0.2 ml PCR tubes. The removable rack can be purchased separately: see product code below. Dimensions: main rack: 215 x 118 x 50 mm. Removable rack: 125 x 85 x 15 mm.

Both racks withstands from -90°C to +121°C.

code	description	case quantity	case weight	case volume
<b>M-540</b>	green rack	5	2.10	0.007
<b>M-541</b>	blue rack	5	2.10	0.007
<b>M-542</b>	yellow rack	5	2.10	0.007



### 96 well PCR racks

**Autoclavable** polypropylene.

Our 96 well plate, individual tubes or strips of 8 or 12 tubes can be used with this rack. An alphanumeric grid helps sample identification.

The included lid is transparent and has a non-slip surface to allow safe storage of multiple racks. This rack can be used alone or inserted in the above workstation, codes M-540 to M-543.

Dimensions: 125 x 85 x 15 mm. It withstands from -90°C to +121°C.

code	description	case quantity	case weight	case volume
<b>M-550</b>	blue rack	5	0.4	0.002
<b>M-551</b>	yellow rack	5	0.4	0.002
<b>M-552</b>	pink rack	5	0.4	0.002
<b>M-553</b>	green rack	5	0.4	0.002

### Stacking PCR work up rack

**Autoclavable** polypropylene. The stacking PCR work-up rack is a robust and convenient workstation or storage rack for plates, strips or tubes.

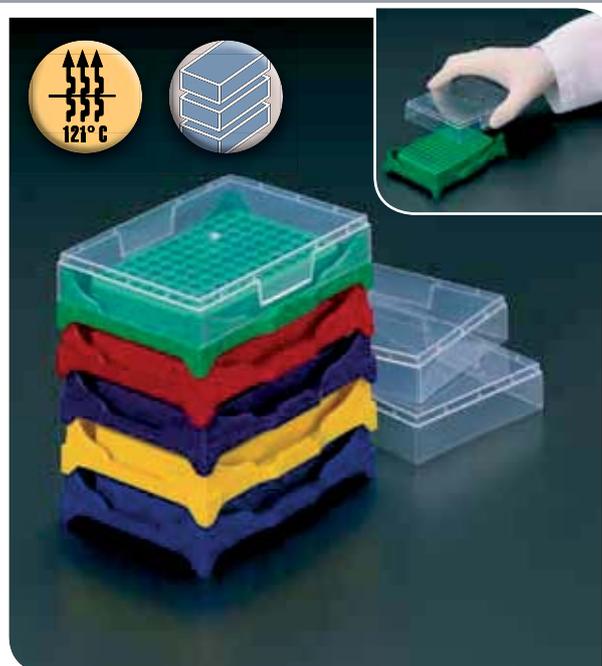
It withstands from -90°C to +121°C. The conveniently small footprint ensures it is an equally useful tool whether it is used on the bench, in the freezer or some other laboratory situation.

The positive click ensures the lid will not become easily dislodged. Yet only a gentle squeeze on each side will allow you to lift off the clear lid. It accommodates every different type of 0,2 ml PCR plate; including fully skirted types, strips or tubes.

The imaginative shaping of the rack's feet make this system easy to use, providing a stable platform as well as enabling **stacking with or without the lid** and whether the vessels are open or sealed.

The racks are manufactured in distinctive colours and are packaged as an assortment.

code	description	case quantity	case weight	case volume
M-554	stacking PCR rack	5	0.45	0.0005



### COMBI Rack for PCR

The box is made of PVC and the rack is made of **autoclavable** polypropylene. Rack and box can be used both together and separately.

**The box:** can be used not only as a storage rack but also as a work station. The white base accepts both 96 and 384 well plates and a transparent cover.

It is stackable, and its low height helps to save space. Lid dimensions: 108.0 x 148.6 x 35.6 mm. Box dimensions: 108.0 x 148.6 x 24.9 mm.

**The rack:** can hold up to 96 PCR tubes or plates or 12 strips of 8 tubes with caps.

Each hole is identified with an alpha numeric numbering system.

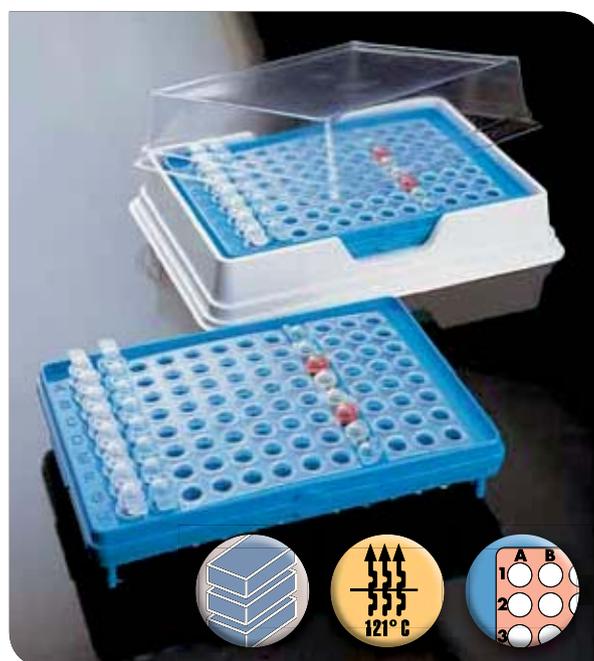
It features a writing area.

The grid stands on 4 legs and can be placed on a lab counter or in a refrigerator. It is stackable.

Can withstand temperatures from -80°C to +121°C.

Dimensions: 84.6 x 125.5 x 28.9 mm

code	description	case quantity	case weight	case volume
M-640	white box with lid	5	0.18	0.003
M-641	96 hole blue rack	5	0.23	0.003



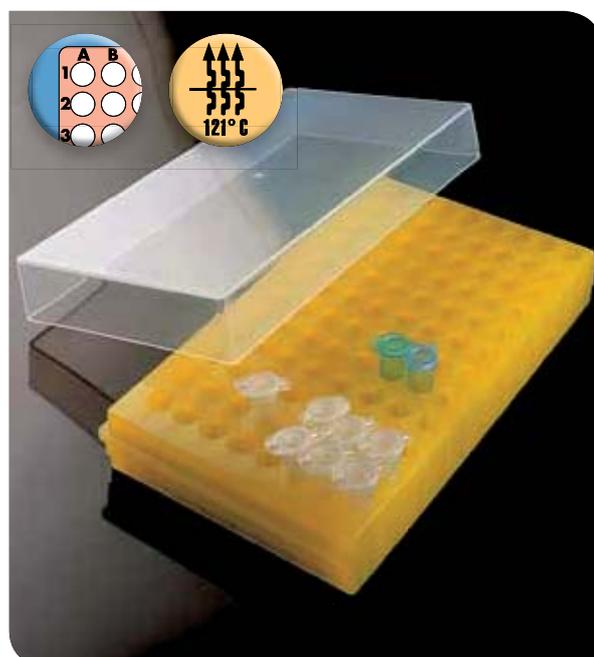
### Reversible 96 well racks with lid

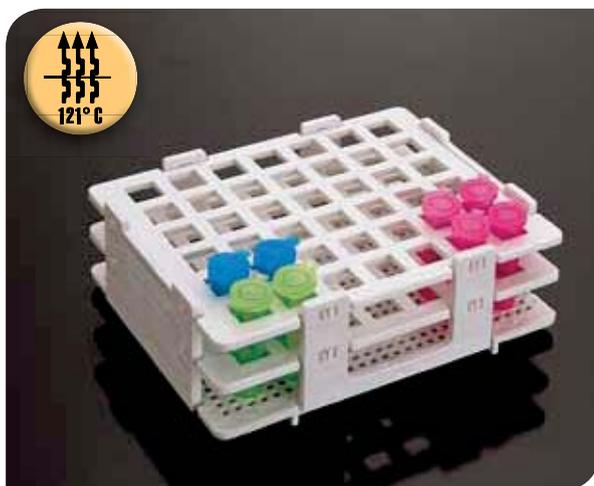
Made of durable **autoclavable** polypropylene. This reversible rack with a clear polypropylene lid is designed with wide spacing to store up to 96 microtubes on either side. One side accommodates 1.5/2.0 ml microtubes; the reverse side accommodates 0.5 ml microtubes. The rack is alphanumericly matrixed for better sample location and has frosted writing patches on all four sides for smear resistant labelling. Operating temperature range: -90°C to +121°C.

With ergonomic lateral handles.

Dimensions: 213x114x26 mm.

code	description	case quantity	case weight	case volume
M-021AM	yellow rack	5	2.05	0.008
M-021R	pink rack	5	2.05	0.008
M-021V	green rack	5	2.05	0.008

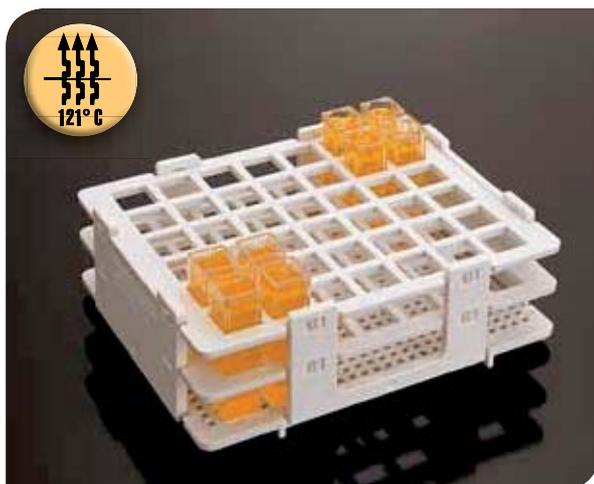




### Microtube racks

Those easy to assemble racks are made of white **autoclavable** polypropylene. These racks have open sides that make them adaptable for use in a tray of crushed ice. Designed for 1.5 ml 42 (6 x 7) microtubes. Racks are supplied dismantled. Dimensions: 128 x 105 x 43 mm.

code	description	case quantity	case weight	case volume
<b>M-110</b>	microtube racks	8	0.91	0.01



### 42 well cuvette rack

Made of white **autoclavable** polypropylene, this easy to assemble rack provides gentle no-scratch support for fragile spectrophotometer cells. Forty-two 10 mm light path cells fit in this 6 x 7 row layout (See page 31).

Also suitable for tubes.

Racks are supplied dismantled.

Dimensions: 128 x 105 x 43 mm.

code	description	case quantity	case weight	case volume
<b>M-100</b>	well cuvette rack	8	1.04	0.01



### Test tube baskets

For rinsing, transport and storage.

Made of **autoclavable** polypropylene, these baskets with sliding lids are ideal for rinsing or carrying glassware.

code	description	case quantity	case weight	case volume
<b>M-040</b>	basket 127 x 102 x 102 mm	6	0.85	0.010
<b>M-050</b>	basket 152 x 152 x 152 mm	6	1.39	0.020
<b>M-060</b>	basket 229 x 229 x 229 mm	6	2.54	0.050



### Pipette rack

Made of **autoclavable** polypropylene.

For orderly, space-saving pipette storage. This rack holds 50 pipettes in a vertical 5 x 10 arrangement. This system ensures that pipettes will not contact table surface.

The end plates have handles for easy carrying.

Hole diameter: 16 mm.

Dimensions: 213 x 114 x 222 mm.

code	description	case quantity	case weight	case volume
<b>19973</b>	pipette rack	6	4.22	0.050

### Universal racks

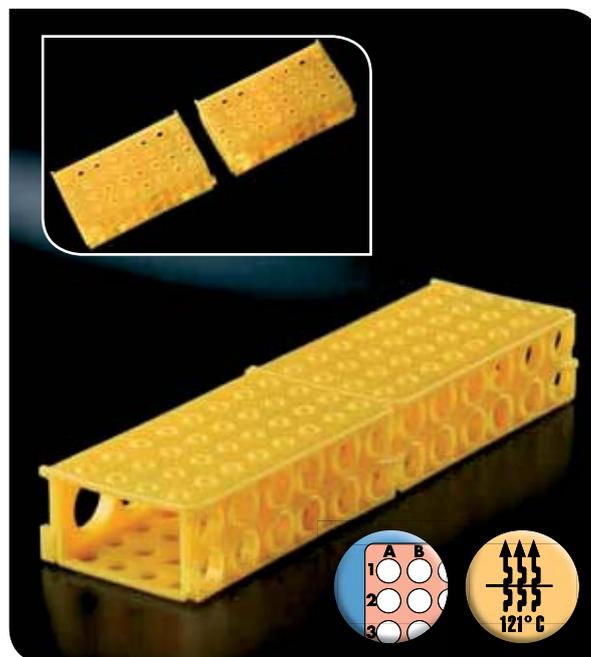
Made of durable polypropylene, this versatile rack is specially **designed to attach to another by pressing the two sides together**. Two racks or more can then be attached to present tubes in varied configurations.

The rack can accommodate the following:

- 4 x 50 ml conical tubes,
- 12 x 15 ml conical tubes,
- 32 x Ø12 mm tubes or 1.5/2.0 ml microtubes,
- 32 x 0.5 ml microtubes.

Alpha-numeric matrix on the four sides for better sample location. Can be autoclaved and can be placed in freezers and water baths. Dimensions: 172 x 50 x 90 mm.

code	colour	case quantity	case weight	case volume
<b>M-520</b>	natural	5	0.81	0.005
<b>M-521</b>	fluorescent blue	5	0.81	0.005
<b>M-522</b>	fluorescent pink	5	0.81	0.005
<b>M-523</b>	fluorescent yellow	5	0.81	0.005



### Universal racks

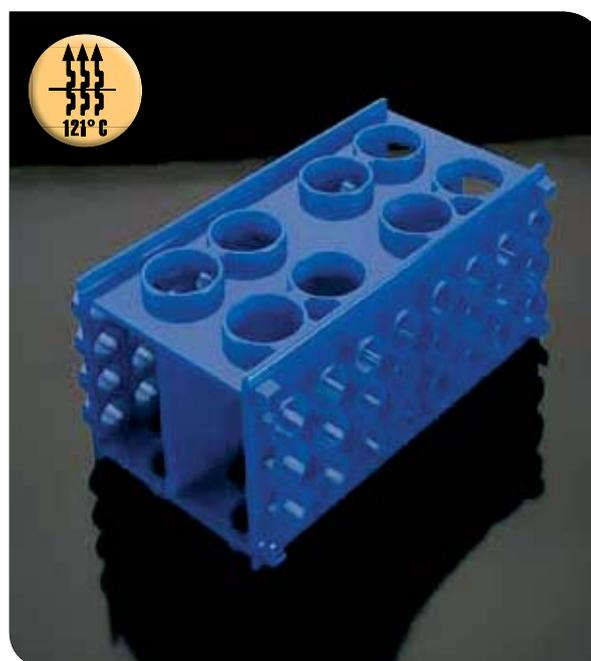
Made of **autoclavable** polypropylene, it withstands from -90°C to +121°C.

This tube rack system is designed to support a variety of tube sizes and styles:

- Ø 30 mm for 8 x 50 ml tubes,
- Ø 20 mm for 20 tubes,
- Ø 16/17 mm for 24 x 15 ml tubes,
- Ø 12/13 mm for 40 tubes.

Dimensions: 198 x 118 x 96 mm.

code	colour	case quantity	case weight	case volume
<b>M-530</b>	fluorescent blue	5	2.10	0.010
<b>M-531</b>	fluorescent green	5	2.10	0.010
<b>M-532</b>	fluorescent pink	5	2.10	0.010
<b>M-533</b>	fluorescent yellow	5	2.10	0.010



### Set of mixed Combi rack

Made of **autoclavable** polypropylene.

It withstands from -90°C to +121°C.

This design consists of a unit of four independent cubes packaged in a clear support tray.

Each rack may be independently rotated to allow the simultaneous storage and use of multiple sizes of tubes.

Each side of the racks is alpha-numeric matrixed for better sample location.

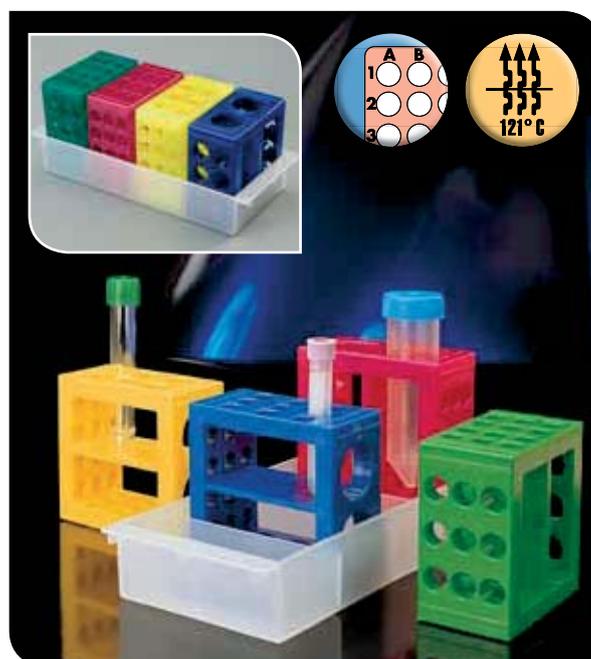
The following tubes can be accommodated in each rack:

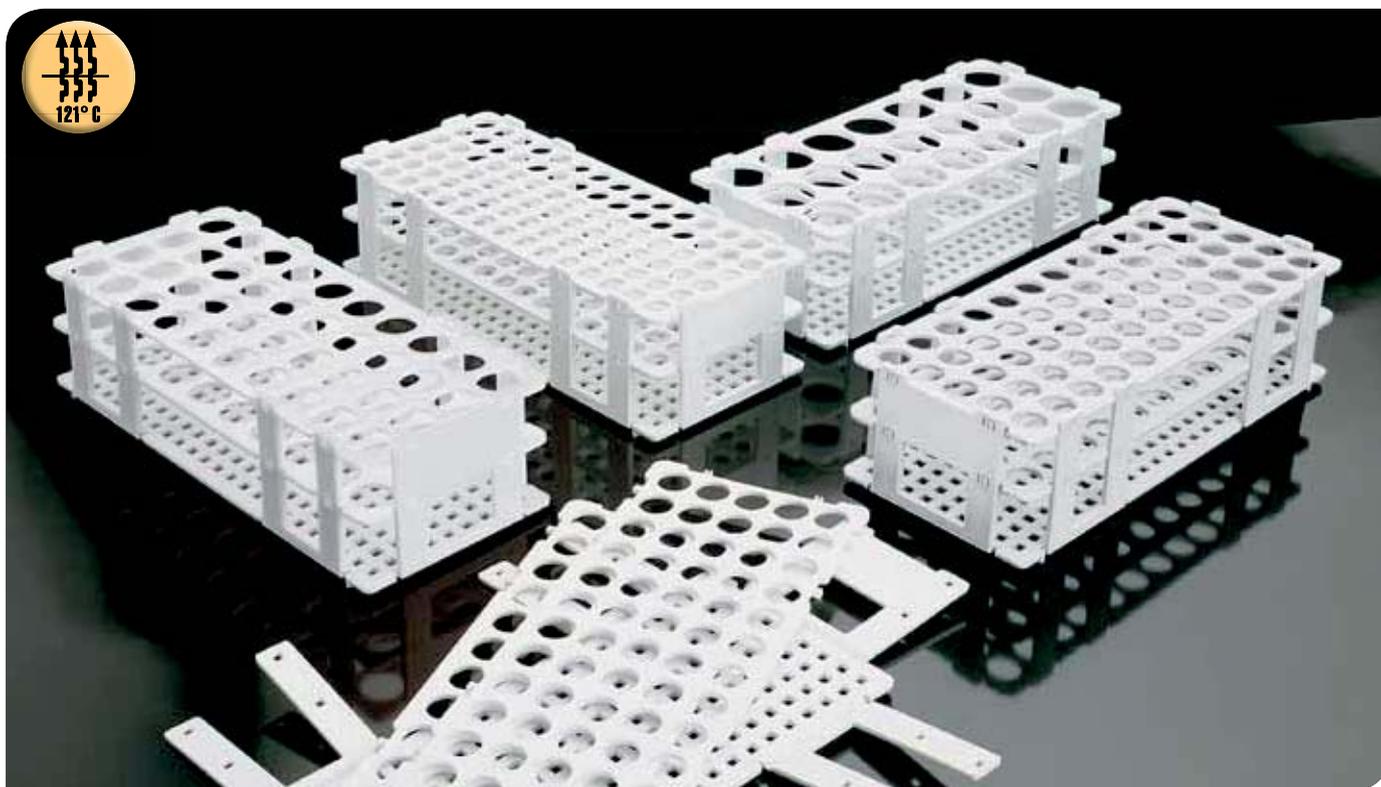
- 2 x 50 ml conical tubes,
- 6 x 15 ml conical tubes,
- 9 x 12 mm diameter tubes or 1.5/2.0 ml microtubes,
- 12 x 0.5 ml microtubes.

Dimensions: tray (handles included): 242 x 120 x 40 mm.

Rack: 48 x 92 x 92 mm.

code	description	case quantity	case weight	case volume
<b>330</b>	combi rack	1	0.60	0.002





### Universal test tube racks

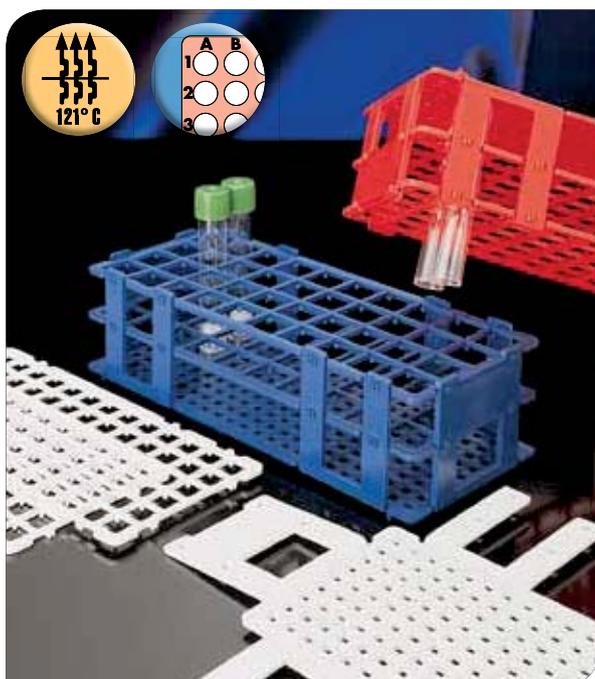
Round hole test tube racks made of white **autoclavable** polypropylene.

A side panel provides a labelling option. Very easy to assemble.

Racks are supplied dismantled.

Dimensions: 240 x 103 x 65 mm.

code	max. diameter tubes	tube capacity	bag quantity	bag weight	bag volume
<b>W-014</b>	13	6 x 15 (90)	1	0.19	0.003
<b>W-015</b>	16	5 x 12 (60)	1	0.19	0.003
<b>W-016</b>	20	4 x 10 (40)	1	0.19	0.003
<b>W-017</b>	25	3 x 8 (24)	1	0.038	0.003
<b>W-018</b>	30	3 x 7 (21)	1	0.038	0.003



### Square hole test tube racks with grip

These high quality polypropylene racks are **autoclavable**, stackable when unloaded and can be dismantled for space saving.

A unique grip feature ensures that tubes are firmly held in racks.

An alphanumeric grid reference ensures an easy sample location.

Dimensions: 250 x 105 x 68 mm.

Very easy to assemble.

Racks are supplied dismantled.

code	max. diameter tube	tube capacity	bag quantity	bag weight	bag volume
<b>W-011</b>	13	6 x 15 (90)	1	0.13	0.001
<b>W-012</b>	16	5 x 12 (60)	1	0.14	0.001
<b>W-013</b>	20	4 x 10 (40)	1	0.15	0.001



### Universal test tube racks

Made of white **autoclavable** polypropylene. Specially designed to ensure that all test tubes will be incubated at the same temperature. An alpha-numeric grid reference on top tier of the rack allows an easy sample location. Racks are easily assembled, and are stackable when unloaded. Each rack is supplied dismantled. Easy to assemble. These racks are also available in the following colours: blue (04), yellow (06) and red (10). To order simply add the colour code to product code.

code	places	Ø test tube mm	dimensions mm	bag quantity	bag weight	bag volume
19563	100 (4 x 25)	micro	262 x 108 x 45	5	0.80	0.003
19564	90 (6 x 15)	13	246.5 x 104 x 60	5	0.80	0.003
19565	60 (5 x 12)	16	246.5 x 104 x 70	5	0.90	0.003
19566	40 (4 x 10)	20	246.5 x 104 x 70	5	0.90	0.003
19567	40 (4 x 10)	25	296.5 x 124 x 85	5	1.00	0.003
19568	24 (3 x 8)	30	300 x 111 x 83	5	1.00	0.003

### Assembling rack

This rack is moulded of blue **autoclavable** (121°C) polypropylene. Suitable for daily usage and storage.

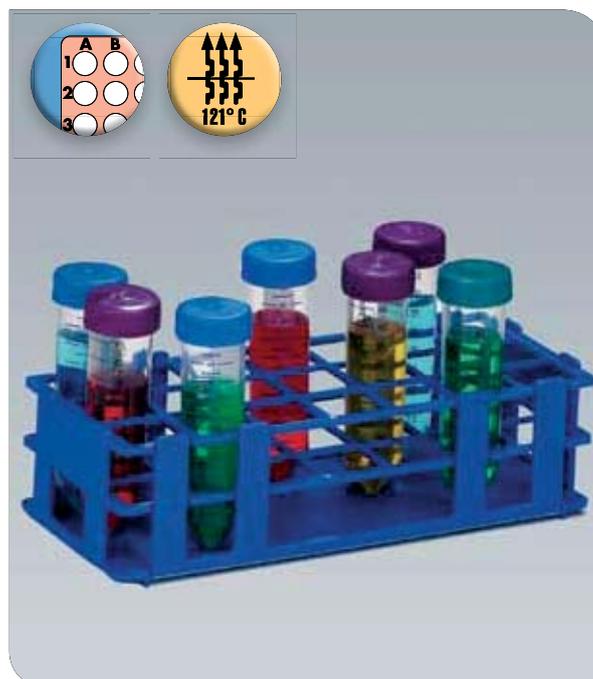
It holds up to 21 tubes of 50 ml (30 mm diameter) each, and features end plates for labelling, as well as numbered and lettered rows for tube identification.

Interlocking feet allows stacking of racks for storage.

This rack is supplied flat, individually bagged.

Fast and easy assembling (instructions included).

code	dimensions mm	rows	case quantity	case weight	case volume
19570	246 x 104 x 64	3 x 7	8	1.50	0.020





### Acetal polymer racks

Made of acetal polymer. **Autoclavable** up 121°C for 20 minutes. Stackable.

Compact and lightweight.

They remains stable if submerged.

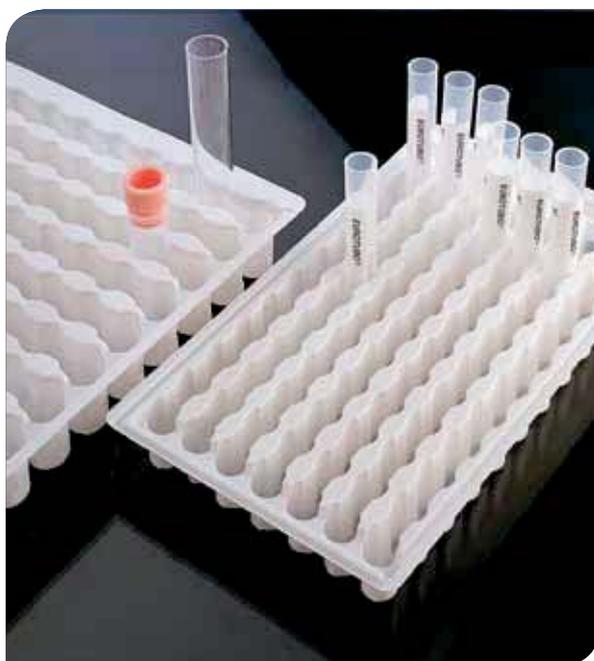
Color blue except model **M-562L**, which is lilac.

With handles on each side for better handling.

External dimensions for all codes: 293 mm x 115 mm x 65 mm H.

Recommended for tubes: 12 x 75, 15 x 95, 16 x 100, centrifugation tubes, urine collection tubes, ...

code	for tubes Ø	capacity	case quantity	case weight	case volume
<b>M-560A</b>	up to 13 mm	(6 x 14) 84	10	3.27	0.032
<b>M-561A</b>	up to 16 mm	(5 x 12) 60	10	3.27	0.032
<b>M-562L</b>	up to 30 mm	(3 x 6) 18	10	3.08	0.032



### Single use racks

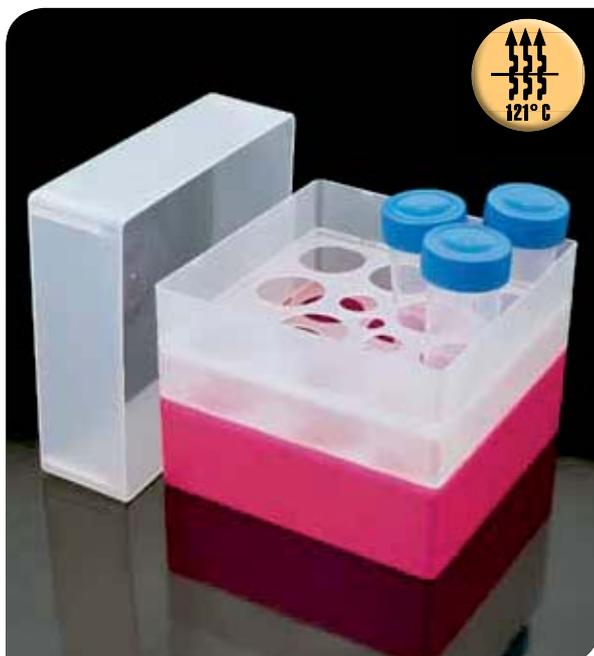
Low-price, flexible racks made of polystyrene.

Dimensions:

**901407**: 200 x 240 x 30 mm

**901410**: 160 x 170 x 25 mm

code	Ø hole	n° holes	case quantity	case weight	case volume
<b>901407</b>	16 mm Ø	10 x 12	25	1.90	0.039
<b>901410</b>	13 mm Ø	10 x 10	25	0.66	0.012



### Combi rack height 128

Polypropylene rack.

Dimensions with lid: 133 x 133 x 128 mm.

Available in fluorescent colours with transparent lid to help identification.

Resist -196 C and autoclavable up to 121 °C.

Sections will hold 10 tubes up to 30 mm diameter, 2 tubes up to 16 mm Ø and 1 tube up to 11 mm Ø.

All of them up to 125 mm height. Ideal for our references **300400, 300705, 300707, 300900, 300907, 300908, 301200, 301201, 301202, 301212, 301213, 301403, 301700, 400400, 400705, 400900, 401200, 401201, 401204, 401403, 401700, 409920, 713100, 716100, 716125, 720125, 429900, 429901, 429910, 429926, 429927, 810100T, 901075, 913100 and 916100**, etc.

code	colour	bag quantity	bag weight	bag volume
<b>U-50128A</b>	blue	1	0.20	0.0022
<b>U-50128N</b>	natural	1	0.20	0.0022
<b>U-50128R</b>	red	1	0.20	0.0022
<b>U-50128V</b>	green	1	0.20	0.0022

### Rack 1x1 height 45

Polypropylene rack.

Dimensions with lid: 133 x 133 x 45 mm. Available in fluorescent colours with transparent lid to help identification. **Resists -196° C** and **autoclavable** up to 121 C.

Only 1 cavity. Suitable for all kind of tubes and other objects.

code	colour	quantity	weight	volume
<b>U-1145A</b>	blue	1	0.12	0.00076
<b>U-1145AM</b>	yellow	1	0.12	0.00076
<b>U-1145N</b>	natural	1	0.12	0.00076
<b>U-1145NA</b>	orange	1	0.12	0.00076



### Rack 1x1 height 70

Polypropylene rack.

Dimensions with lid: 133 x 133 x 70 mm.

Available in fluorescent colours with transparent lid to help identification.

Resists -196° C and **autoclavable** up to 121 °C.

Only one cavity. Suitable for all kind of tubes and other objects.

code	colour	quantity	weight	volume
<b>U-1170A</b>	blue	1	0.18	0.00012
<b>U-1170AM</b>	yellow	1	0.18	0.00012
<b>U-1170N</b>	natural	1	0.18	0.00012



### Rack 9x9 height 70

Polypropylene rack.

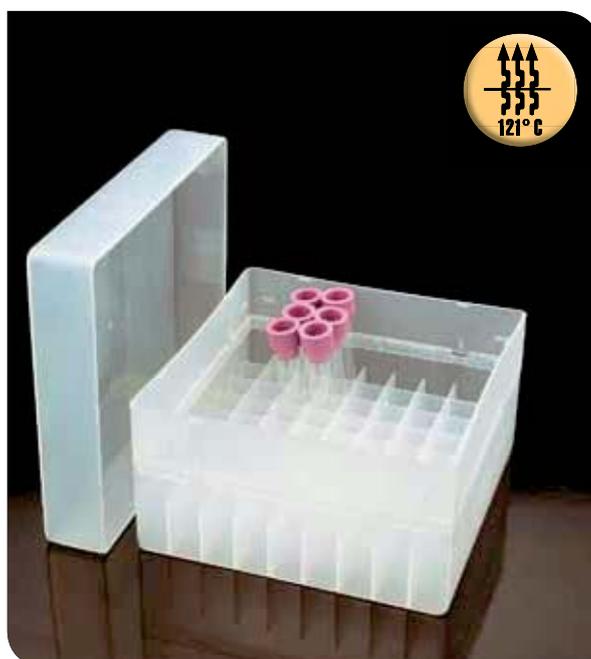
Dimensions with lid: 133 x 133 x 70 mm.

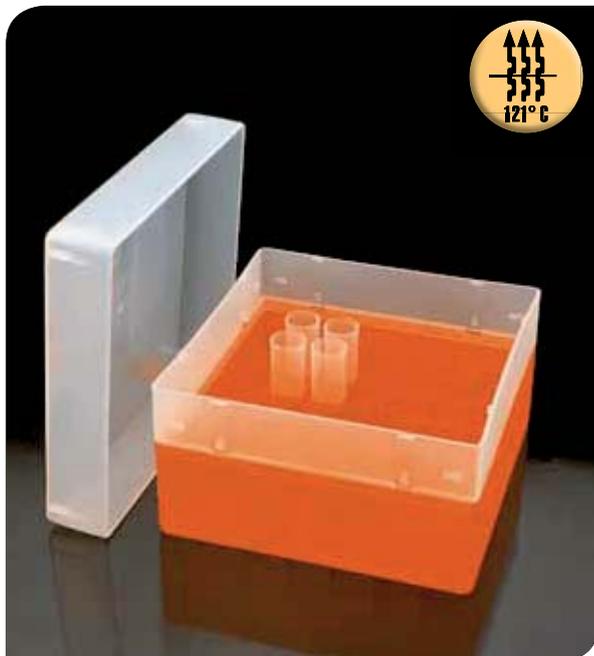
Available in fluorescent colours with transparent lid to help identification.

**Resists -196° C** and **autoclavable** up to 121 C.

Sections will hold 81 tubes up to 12 mm diameter and 67 mm height. Ideal for our references **300500** and **400500**, etc.

code	colour	quantity	weight	volume
<b>U-9970A</b>	blue	1	0.18	0.0012
<b>U-9970N</b>	natural	1	0.18	0.0012
<b>U-9970R</b>	red	1	0.18	0.0012





### Rack 7x7 height 80

Polypropylene rack.

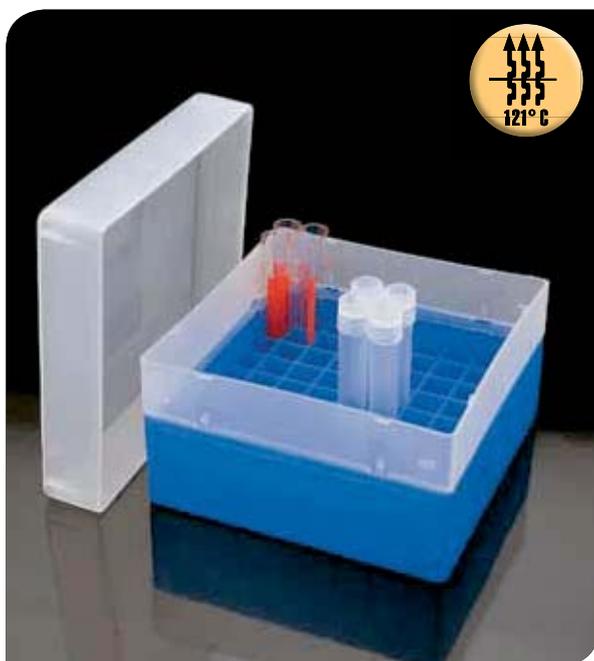
Dimensions with lid: 133 x 133 x 80 mm.

Available in fluorescent colours with transparent lid to help identification.

Resists -196° C and **autoclavable** up to 121 C.

Sections will hold 49 tubes up to 16 mm diameter and 77 mm height. Ideal for our references **401100** and **409003.1**, **409107.1**, **409108.1** and other vials.

code	colour	quantity	weight	volume
<b>U-7780A</b>	blue	1	0.18	0.0014
<b>U-7780N</b>	natural	1	0.18	0.0014
<b>U-7780NA</b>	orange	1	0.18	0.0014
<b>U-7780V</b>	green	1	0.18	0.0014



### Rack 9x9 height 80

Polypropylene rack.

Dimensions with lid: 133 x 133 x 80 mm.

Available in fluorescent colours with transparent lid to help identification.

**Resists -196° C** and **autoclavable** up to 121 °C.

Sections will hold 81 tubes up to 12 mm diameter and 77 mm height. Ideal for our references **300500**, **400500**, **409003.1**, **409003.2**, **409107**, **409107.1**, **409108**, **409108.1**, **801075**, **801175T**, **801275**, **901075**, **901275**, etc.

code	colour	quantity	weight	volume
<b>U-9980A</b>	blue	1	0.18	0.0014
<b>U-9980N</b>	natural	1	0.18	0.0014
<b>U-9980NA</b>	orange	1	0.18	0.0014



### Rack 7x7 height 96

Polypropylene rack.

Dimensions with lid: 133 x 133 x 96 mm.

Available in fluorescent colours with transparent lid to help identification.

**Resists -196° C** and **autoclavable** up to 121 °C.

Sections will hold 49 tubes up to 16mm diameter and 93 mm height. Ideal for tubes 16x90-92 mm or similar tubes.

code	colour	quantity	weight	volume
<b>U-7796A</b>	blue	1	0.20	0.0016
<b>U-7796V</b>	green	1	0.20	0.0016

### Rack 9x9 height 96

Polypropylene rack.

Dimensions with lid: 133 x 133 x 96 mm.

Available in fluorescent colours with transparent lid to help identification.

**Resists -196° C and autoclavable** up to 121 C.

Sections will hold 81 tubes up to 12 mm diameter and 93 mm height. Ideal for our references **300700, 300700.4, 300700.5, 300700.6, 300700.7, 300701, 300702, 300704, 300800, 300800.1, 300800.2, 300801, 300804, 301500, 400700, 400800, 400800.1, 409003.1, 409003.2, 409107, 409107.1, 409108, 409108.1, 409109, 409109.1, 801275, 801175T and 901275**, etc.

code	colour	quantity	weight	volume
<b>U-9996A</b>	blue	1	0.20	0.0016
<b>U-9996AM</b>	yellow	1	0.20	0.0016
<b>U-9996N</b>	natural	1	0.20	0.0016



### Rack 5x5 round hole height 105

Polypropylene rack.

Dimensions with lid: 133 x 133 x 105 mm.

Available in fluorescent colours with transparent lid to help identification. **Resists -196° C and autoclavable** up to 121°C.

Sections will hold 25 tubes up to 17 mm diameter and 102 mm height. Ideal for our references **300705, 301200, 301201, 301202, 301700, 300707, 300900, 400705, 400900, 401200, 401201, 401204, 401700, 713100, 716100, 810100T, 913100 and 916100**, etc.

code	colour	quantity	weight	volume
<b>U-105105A</b>	blue	1	0.20	0.0018
<b>U-105105Y</b>	yellow	1	0.20	0.0018



### Rack 5x5 round hole height 128

Polypropylene rack.

Dimensions with lid: 133 x 133 x 128 mm.

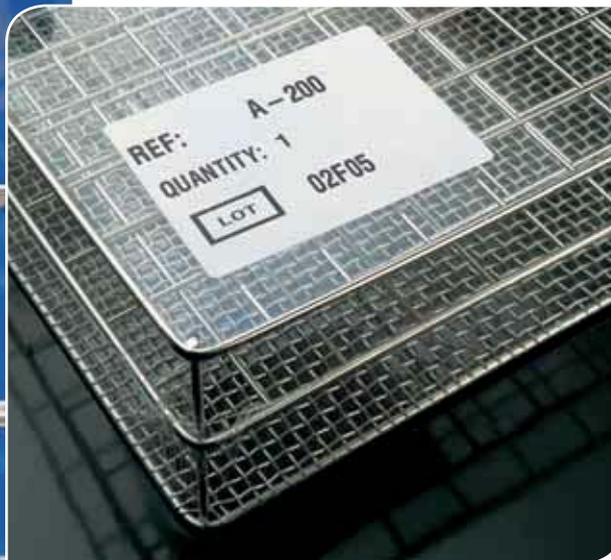
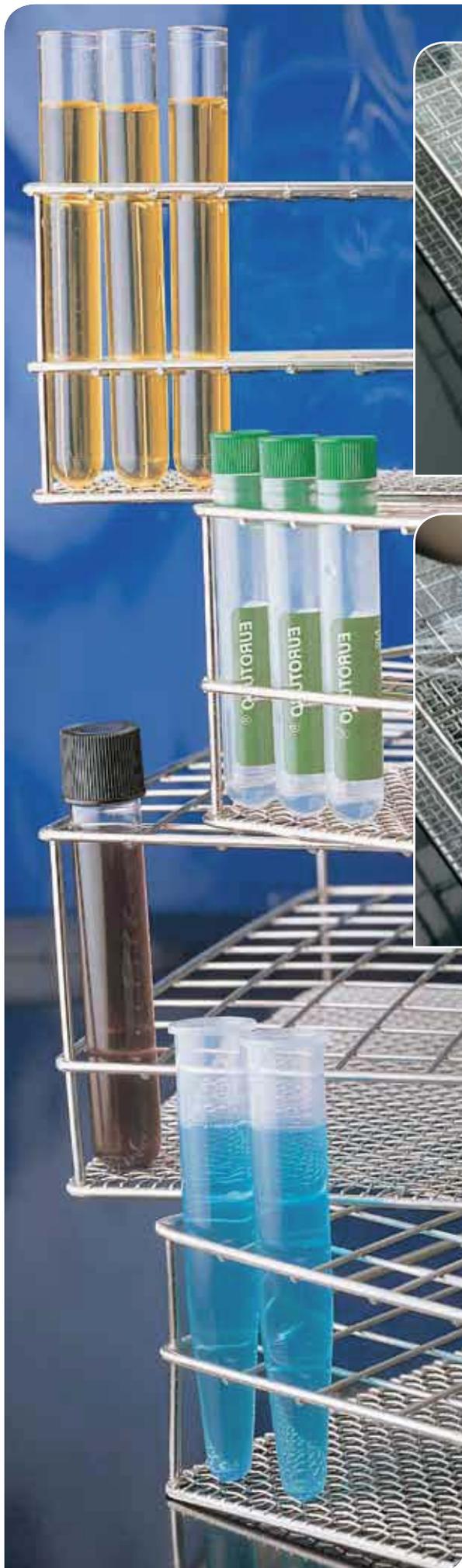
Available in fluorescent colours with transparent lid to help identification. **Resists -196° C and autoclavable** up to 121 C.

Sections will hold 25 tubes up to 17 mm diameter and 125 mm height.

Ideal for our references **300705, 300707, 300900, 300904, 300907, 300908, 301200, 301201, 301202, 301212, 301213, 301403, 400705, 400900, 401200, 401201, 401204, 401403, 401700, 409920, 429910, 713100, 716100, 810100T, 913100 and 916100**, etc.

code	colour	quantity	weight	volume
<b>U-15128A</b>	blue	1	0.22	0.0022
<b>U-15128AM</b>	yellow	1	0.22	0.0022
<b>U-15128N</b>	natural	1	0.22	0.0022





### Handmade stainless steel racks and baskets

For over 25 years Deltalab has been producing a range of fine handmade stainless steel Racks and Baskets.

Materials of the highest quality are used to ensure final products have top finishings and are sturdy and durable.

The base of all racks and baskets are manufactured from a very strong stainless steel mesh. Handmade production enables Deltalab to manufacture **Racks and Baskets customised** to your own specifications.

**Just indicate the product size you need and Deltalab will provide a product made to your own requirements.**

Most racks can be manufactured with a stainless steel side identification plate upon request.

Racks also available with band.

Also can be made with safety lid for transport.



### Aluminium racks 10 x 5 holes

Stackable. Alpha-numerical index for better sample location. Supplied encased and interlocked, wrapped in a protecting film. Code **Z-300** suitable for 12 ml screw tubes, series **301402**, and for 15 ml centrifuge tubes, series **429900** (See Chapter of tubes)

code	dimensions mm	Ø hole mm	case quantity	case weight	case volume
<b>Z-100</b>	165 x 85 x 45	12	10	1.10	0.0065
<b>Z-250</b>	195 x 100 x 45	15	10	1.40	0.0090
<b>Z-300</b>	220 x 110 x 45	17	10	1.70	0.0110

### Aluminium racks 5 x 5 holes

Stackable. Alpha-numerical index for better sample location. Supplied encased and interlocked, wrapped in a protecting film. Code **Z-075** suitable for 12 ml screw tubes, series **301402**, and for 15 ml centrifuge tubes, series **429900** (See Chapter of tubes)

code	dimensions mm	Ø hole mm	case quantity	case weight	case volume
<b>Z-025</b>	35 x 85 x 45	12	10	0.60	0.0015
<b>Z-050</b>	100 x 100 x 45	15	10	0.75	0.0045
<b>Z-075</b>	110 x 110 x 45	17	10	1.00	0.0055

Minimum unit sale: 1



### Stainless steel racks 10 x 5 holes

Stackable. Alpha-numerical index for better sample location. Supplied encased and interlocked, wrapped in a protecting film. Code **Z-600** suitable for 12 ml screw tubes, series **301402**, and for 15 ml centrifuge tubes, series **429900** (See Chapter of tubes)

code	dimensions mm	Ø hole mm	case quantity	case weight	case volume
<b>Z-500</b>	165 x 85 x 50	12	10	3.30	0.0070
<b>Z-550</b>	195 x 100 x 50	15	10	3.60	0.0095
<b>Z-600</b>	220 x 110 x 50	17	10	4.25	0.0120

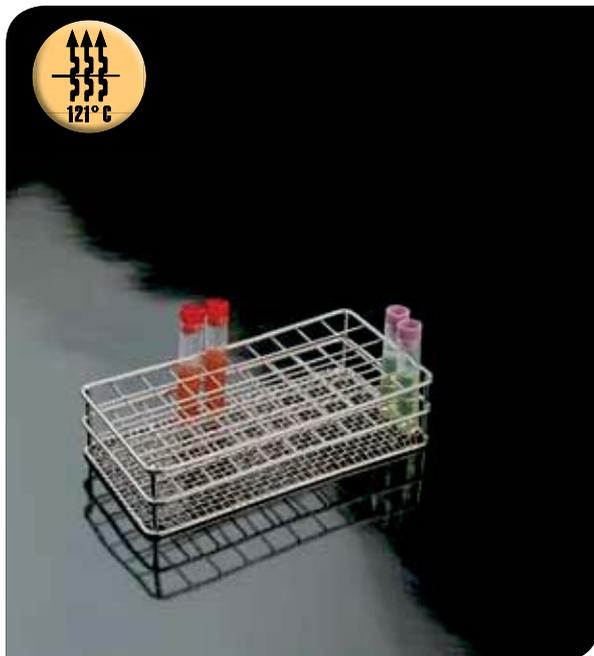
### Stainless steel racks 5 x 5 holes

Stackable. Alpha-numerical index for better sample location. Supplied encased and interlocked, wrapped in a protecting film. Code **Z-800** suitable for 12 ml screw tubes, series **301402**, and for 15 ml centrifuge tubes, series **429900** (See Chapter of tubes)

code	dimensions mm	Ø hole mm	case quantity	case weight	case volume
<b>Z-700</b>	85 x 85 x 50	12	10	1.35	0.0035
<b>Z-750</b>	100 x 100 x 50	15	10	1.90	0.0050
<b>Z-800</b>	110 x 110 x 50	17	10	2.15	0.0060

Minimum unit sale: 1

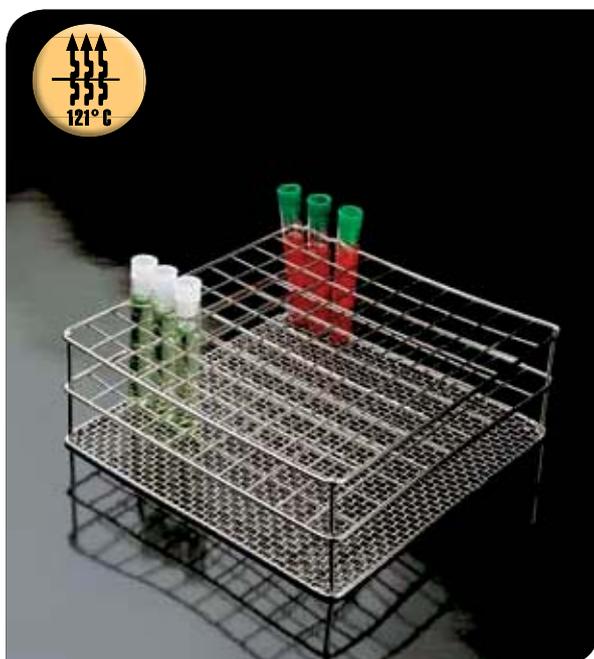




### Stainless steel racks

For tubes of 12 mm Ø, hole 13 mm Ø.

code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>F-200</b>	155 x 155 x 35	100 (10 x 10)	1	0.150	0.0008
<b>F-210</b>	155 x 80 x 35	50 (10 x 5)	1	0.100	0.0004
<b>F-240</b>	95 x 63 x 35	24 (6 x 4)	1	0.070	0.0002
<b>F-211</b>	155 x 80 x 70	50 (10 x 5)	1	0.140	0.0009



### Stainless steel racks

For tubes of 14 mm Ø, hole 15 mm Ø.

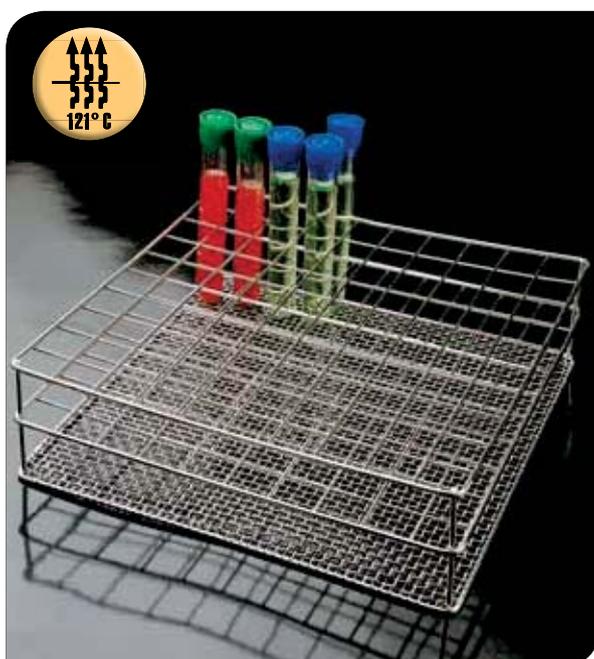
code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>B-200</b>	175 x 175 x 60	100 (10 x 10)	1	0.225	0.0018
<b>B-210</b>	175 x 85 x 60	50 (10 x 5)	1	0.145	0.0009
<b>B-220</b>	353 x 90 x 60	100 (20 x 5)	1	0.270	0.0018
<b>B-240</b>	110 x 75 x 60	24 (6 x 4)	1	0.090	0.0005

### Stainless steel racks

For tubes of 18 mm Ø, hole 19 mm Ø.

Codes A-202, A-212, A-222 and A-242 are suitable for 12 ml screw tubes, series 301402, and for 15 ml centrifuge tubes, series 429900 (See Chapter of tubes)

code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>A-201</b>	210 x 210 x 40	100 (10 x 10)	1	0.290	0.0017
<b>A-211</b>	210 x 110 x 40	50 (10 x 5)	1	0.185	0.0009
<b>A-231</b>	163 x 125 x 40	48 (8 x 6)	1	0.170	0.0008
<b>A-241</b>	125 x 85 x 40	24 (6 x 4)	1	0.160	0.0004
<b>A-251</b>	87 x 65 x 40	12 (4 x 3)	1	0.085	0.0002
<b>A-200</b>	210 x 210 x 60	100 (10 x 10)	1	0.306	0.0026
<b>A-210</b>	210 x 110 x 60	50 (10 x 5)	1	0.200	0.0013
<b>A-230</b>	165 x 125 x 60	48 (8 x 6)	1	0.185	0.0012
<b>A-240</b>	125 x 85 x 60	24 (6 x 4)	1	0.177	0.0006
<b>A-250</b>	87 x 65 x 60	12 (4 x 3)	1	0.100	0.0003
<b>A-260</b>	310 x 210 x 59	150 (15 x 10)	1	0.445	0.0040
<b>A-202</b>	210 x 210 x 85	100 (10 x 10)	1	0.320	0.0037
<b>A-212</b>	210 x 110 x 85	50 (10 x 5)	1	0.200	0.0019
<b>A-222</b>	415 x 110 x 85	100 (20 x 5)	1	0.335	0.0038
<b>A-242</b>	125 x 85 x 85	24 (6 x 4)	1	0.190	0.0009

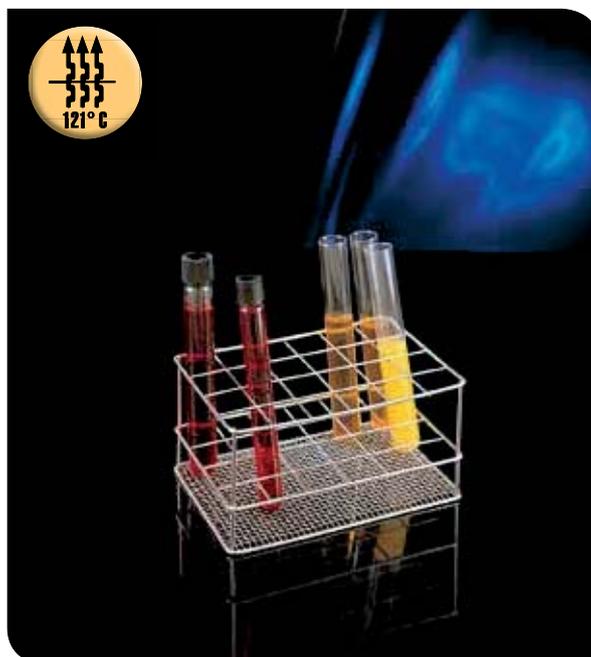


### Racks for containers up to 23 mm Ø

Made of stainless steel. 25 mm square holes.  
Features a strong woven mesh base.

code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>D-200</b>	265 x 265 x 85	100 (10 x 10)	1	0.425	0.0059
<b>D-230</b>	219 x 166 x 85	48 (8 x 6)	1	0.238	0.0030
<b>D-240</b>	165 x 110 x 85	24 (6 x 4)	1	0.145	0.0015
<b>D-250</b>	111 x 84 x 85	12 (4 x 3)	1	0.095	0.0008

Suitable for glass tubes shown on pages 139-140.

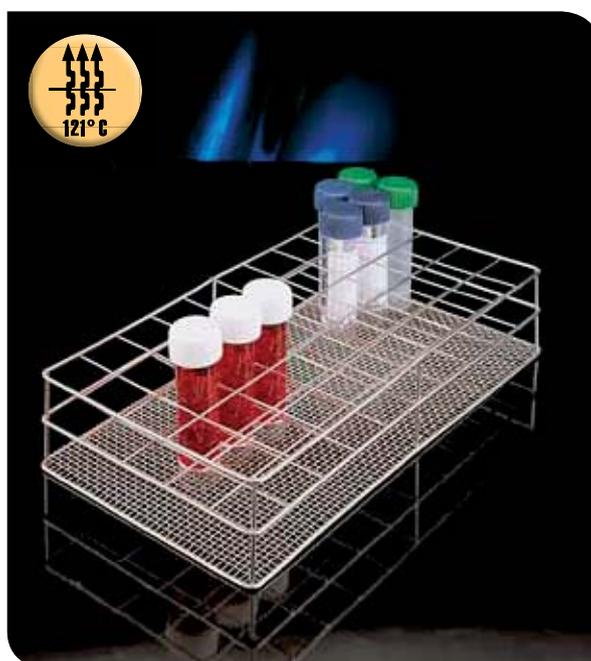


### Racks for containers up to 28 mm Ø

Made of stainless steel. 30 mm square holes.  
Features a strong woven mesh base.

code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>C-211</b>	315 x 160 x 60	50 (10 x 5)	1	0.280	0.0030
<b>C-256</b>	200 x 70 x 60	12 (6 x 2)	1	0.115	0.0008

Suitable for containers shown on pages 152-153.



### Racks for containers up to 28 mm Ø

Made of stainless steel. 30 mm square holes.  
Features a strong woven mesh base.

code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>C-200</b>	315 x 315 x 40	100 (10 x 10)	1	0.530	0.0040
<b>C-254</b>	195 x 65 x 40	12 (6 x 2)	1	0.100	0.0005

Suitable for containers shown on pages 152-153.





### Racks for containers up to 30 mm Ø

Made of stainless steel. 33 mm square holes. Features a strong woven mesh base.

code	dimensions mm	containers capacity	quantity	weight	volume
R-292	137 x 104 x 85	12 (3 x 4)	1	0,10	0,001
R-293	171 x 171 x 85	25 (5 x 5)	1	0,18	0,002
R-281	138 x 70 x 92	8 (4 x 2)	1	0,50	0,001
R-282	138 x 138 x 92	16 (4 x 4)	1	0,50	0,002
R-283	206 x 206 x 89	36 (6 x 6)	1	0,60	0,005

Suitable for containers shown on page 29.

**50 ml conical tubes made of transparent polypropylene. Suitable for centrifugation. Sterile and non sterile version skirted and not skirted.**



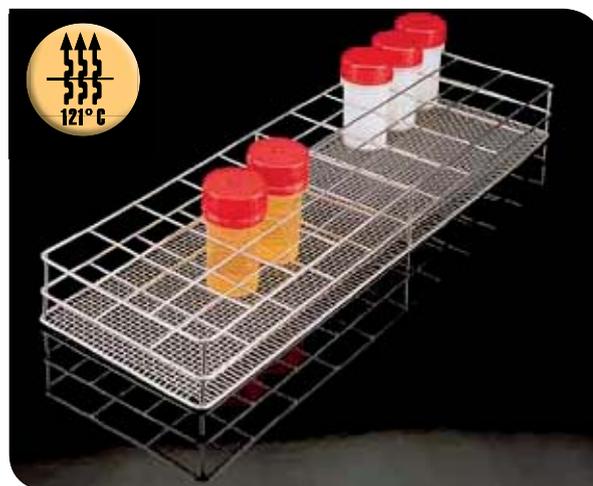
You can find our 50ml Centrifuge tubes at Chapters 1 and 7.

### Racks for containers up to 38 mm Ø

Stainless steel. 40 mm square holes. With a strong woven mesh base.

code	length x width x height mm	containers capacity	quantity	weight	volume
<b>L-250</b>	168 x 128 x 43	12 (4 x 3)	1	0.140	0.0009
<b>L-240</b>	255 x 170 x 43	24 (6 x 4)	1	0.246	0.0019

Suitable for containers shown on pages 154-155.

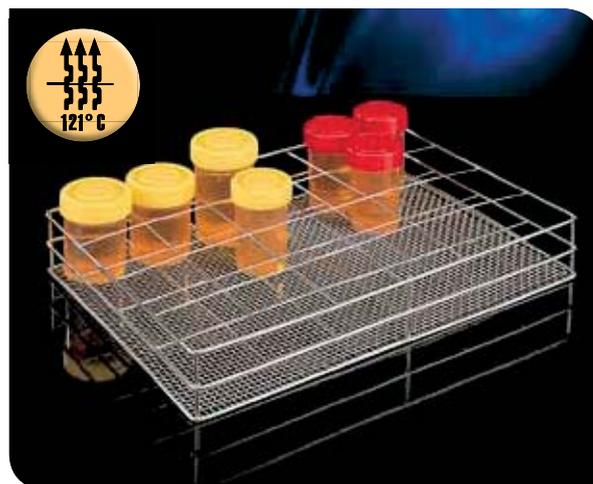


### Racks for containers up to 47 mm Ø

Stainless steel. 50 mm square holes. With a strong woven mesh base.

code	length x width x height mm	containers capacity	quantity	weight	volume
<b>I-240</b>	315 x 210 x 45	24 (6 x 4)	1	0.325	0.0029
<b>I-250</b>	210 x 160 x 45	12 (4 x 3)	1	0.192	0.0015

Suitable for containers shown on pages 156-157.

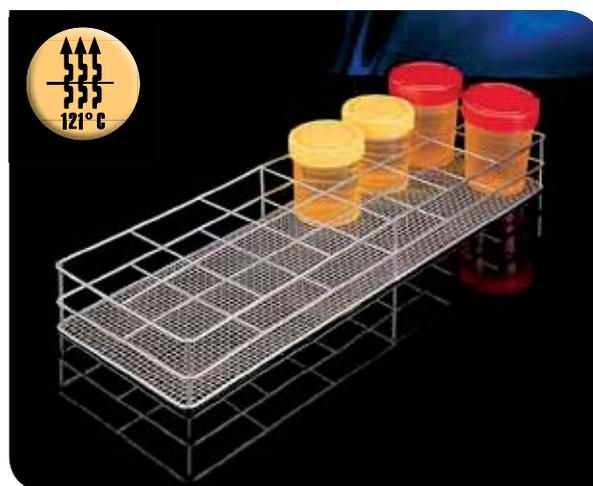


### Racks for containers up to 58 mm Ø

Stainless steel. 63 mm square holes.

code	length x width x height mm	containers capacity	quantity	weight	volume
<b>N-240</b>	393 x 262 x 45	24 (6 x 4)	1	0.450	0.0046
<b>N-250</b>	393 x 132 x 45	12 (6 x 2)	1	0.282	0.0023

Suitable for containers shown on pages 158, 159, 160 and 161.



### Racks for containers up to 58 ml Ø, with lid

Made of stainless steel with a lid. Hole of 63 mm. Ideal for carrying containers, as they stand firmly in the rack thanks to the lid.

code	length x width x height mm	containers capacity	quantity	weight	volume
<b>NT-250</b>	392 x 131 x 80	12 (6 x 2)	1	0.40	0.004

Suitable for containers shown on pages 158, 159, 160 and 161.

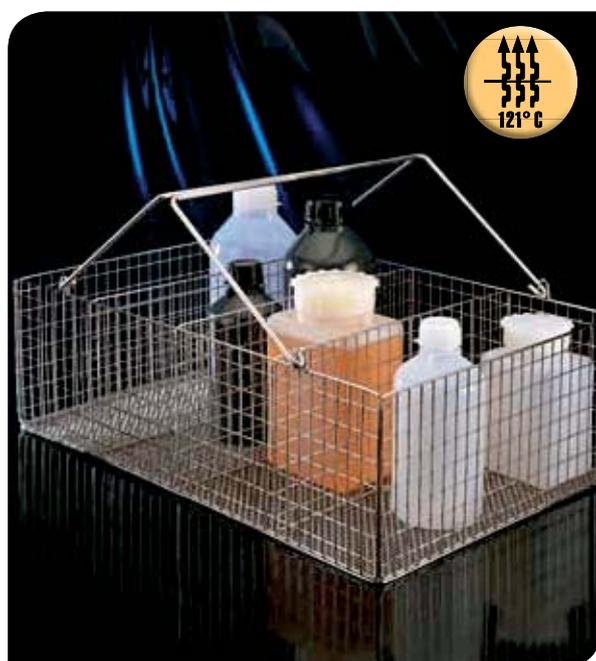




### Bottle carrier with folding handlers

Manufactured in stainless steel and designed for the transport of six 1 liter bottles such as chemical reagent bottles. See our range of bottles and containers in section 14.

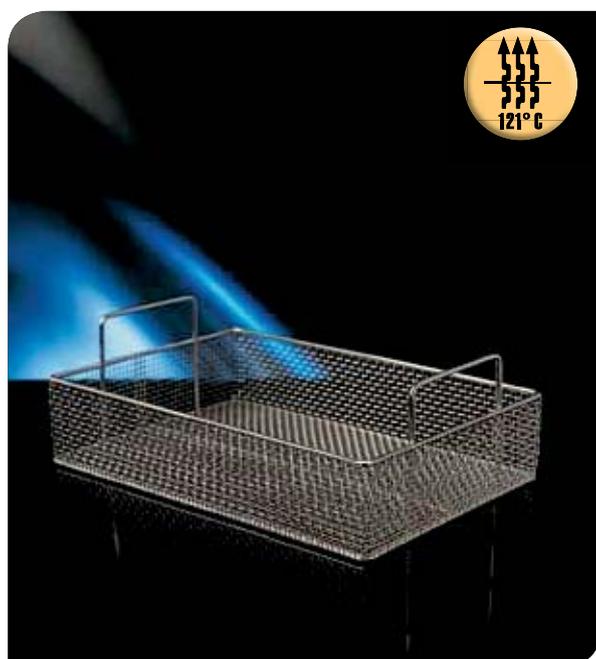
code	dimensions mm	quantity	weight	volume
<b>19700</b>	380 x 240 x 130	1	0.35	0.018



### Baskets with folding handles

Made of stainless steel. Features a strong woven mesh base. For bottles and containers.

code	dimensions mm	quantity	weight	volume
<b>With dividers every 12 cm. 4 departments</b>				
<b>H-261</b>	480 x 300 x 150	1	1.84	0.021
<b>Without dividers</b>				
<b>H-260</b>	480 x 298 x 150	1	1.18	0.021



### Instrument trays

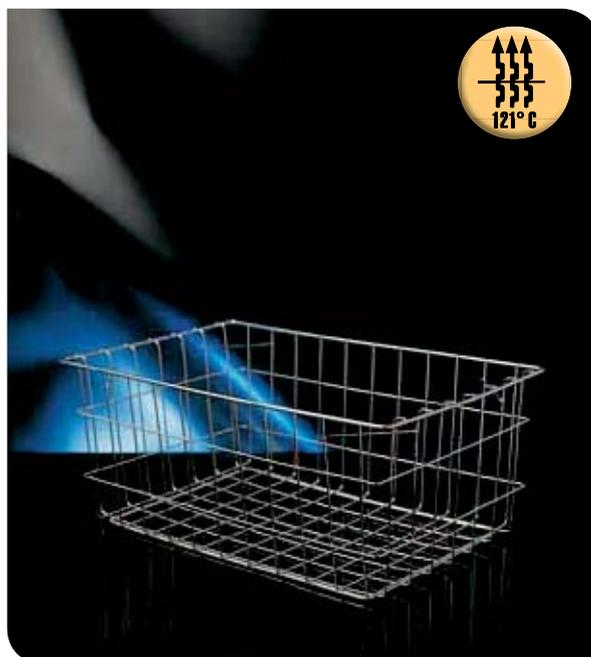
Made of stainless steel thick woven mesh. Reinforced construction to withstand weight. With not folding handles.

code	dimensions mm	quantity	weight	volume
<b>T-200</b>	367 x 238 x 77	1	0.98	0.0070
<b>T-210</b>	360 x 260 x 80	1	1.12	0.0075

### Baskets for autoclave

Stackable baskets made of stainless steel.

code	dimensions mm	quantity	weight	volume
H-290	470 x 300 x 200	1	1.095	0.0285
H-295	570 x 300 x 200	1	1.228	0.0345
H-285	570 x 300 x 150	1	0.860	0.0256



### Square baskets with optional lid

Made of stainless steel. Feature a strong woven mesh base. Baskets have a folding handle for more convenience and are available with or without lid. **To order baskets with lids, simply add T to the end of product code (ex: H-200T to order the first model with a lid). Minimum order quantity: 5 units.** Other models with internal divisions are available on request. Please ask our commercial department for more details.

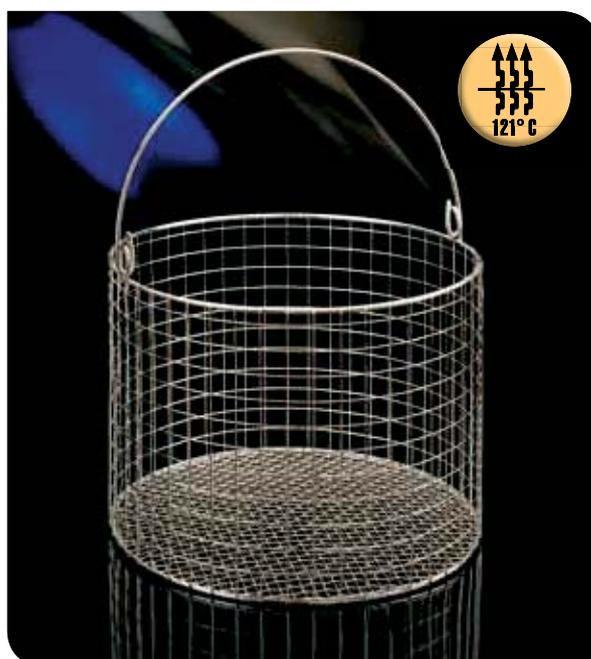
code	dimensions mm	quantity	weight	volume
H-200	118 x 118 x 144	1	0.252	0.0020
H-210	160 x 160 x 140	1	0.324	0.0035
H-215	139 x 139 x 139	1	0.270	0.0027
H-220	210 x 210 x 180	1	0.524	0.0080
H-240	300 x 300 x 200	1	0.778	0.0180



### Round baskets with lid

Made of stainless steel, the base of these baskets is reinforced by a thick stainless steel mesh for added strength. Baskets feature a folding handle for more convenience. Other models with inner crossed dividers are available on request. Please ask our commercial department for more details.

code	height mm	diameter mm	quantity	weight	volume
R-200	125	150	1	0.265	0.0020
R-215	150	200	1	0.350	0.0035
R-220	200	200	1	0.528	0.0040
R-230	180	208	1	0.550	0.0040
R-240	180	230	1	0.560	0.0040
R-250	180	240	1	0.570	0.0045





### Stainless steel basket for blood collection

Manufactured in stainless steel. Ideal to collect blood samples at hospital chambers, and carry them to and inside the laboratory.

The basket includes:

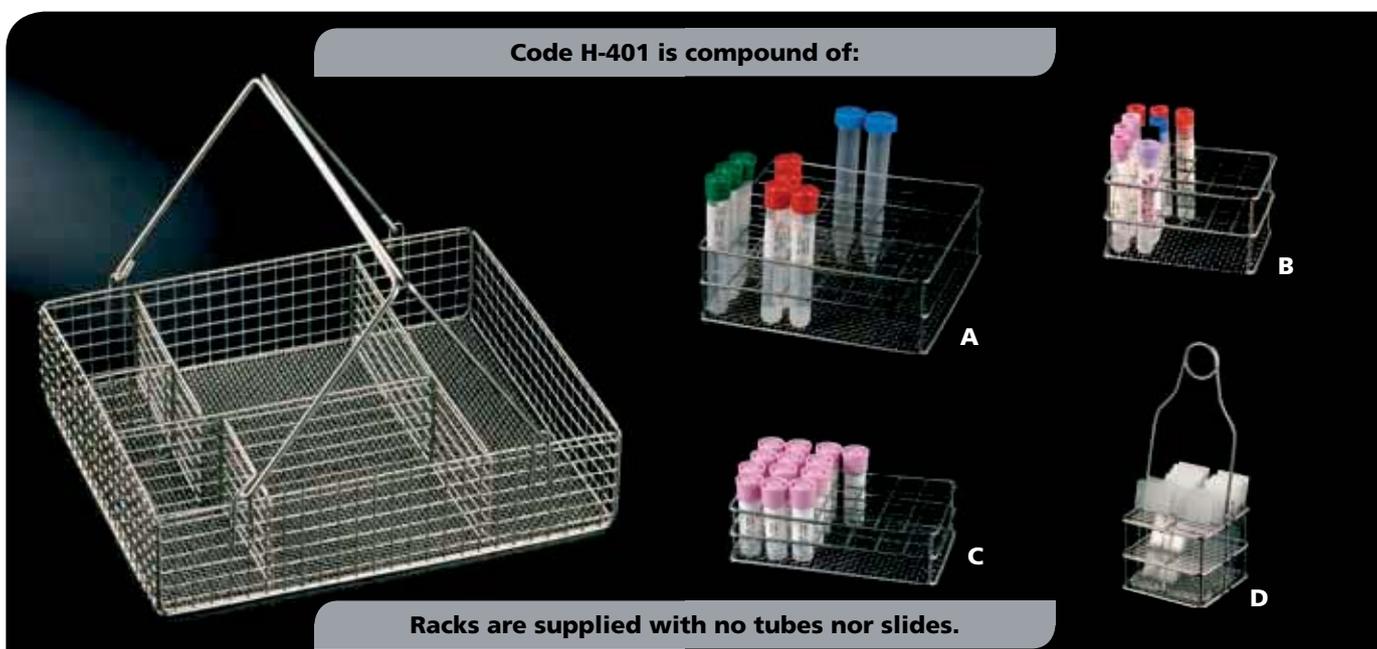
A-295, rack for 64, 10ml tubes (95 x 15 mm). Picture A

B-240, rack for 24, 5 ml tubes (75 x 12 mm). Picture B

A-261, rack for 28, 5 ml tubes (50 x 15 mm flat bottom). Picture C

CP-24, small-sized basket for 24 slides vertically placed. Picture D

code	description	dimensions mm	quantity	weight	volume
H-401	basket with racks	340 x 290 x 85	1	1.340	0.0083



Code H-401 is compound of:

Racks are supplied with no tubes nor slides.

### Plastic tray for blood collection tubes

Made of sturdy autoclavable polypropylene. Colour: white. Ideal to carry material from lab to patient. Designed for flexibility and versatility, this tray can be arranged to meet your specific needs. It includes two 40-place test tube supports (for tubes up to Ø 16 mm) and one 18-place slide holder (for 76 x 26 mm slides), a large requisition section, and adjustable partitions to hold varied materials. The handle is formed by an end mounted, detachable loop that is 178 mm high.

code	dimensions mm	quantity	weight	volume
M-300	356 x 292 x 51	1	0.26	0.030



## Racks for bags

Made of stainless steel, specially designed for Stomacher type homogenizer bags. Dimensions 390 x 200 x 240 mm.  
See bags on chapter 15.

code	description	quantity	weight	volume
15006	rack for 14 bags	1	1.1	0.140
15007	clips to adjust bags	10	0.2	0.001

**Customer - designed models can be produced**



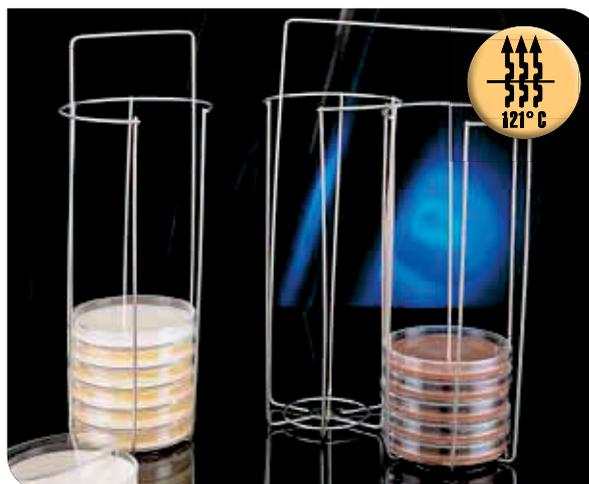
## Petri dish baskets

These stainless steel baskets are suitable for dishes of diameter up to 10 cm.

Two models available to hold 10 or 20 Petri dishes.

code	description	dimensions mm (height without handle)	handle mm height	case quantity	case weight	case volume
H-600	1 section, holds up to 10 dishes	110x105x250	105	1	0.10	0.003
H-601	2 sections, holds up to 20 dishes	215x105x250	100	1	0.20	0.006

**See more Petri dish baskets in pages 84 and 85**



## Staining baskets and racks for slides

Made of stainless steel.  
Autoclavable staining baskets.  
Designed for 76 x 26 mm slides.

code	description	dimensions mm	quantity	weight	volume
CP-30 H	basket for 30 horizontal slides	172 x 86	1	0.150	0.0011
CP-45 H	basket for 45 horizontal slides	235 x 85	1	0.186	0.0015
C-45	glass tray with lid	253 x 93	1	0.400	0.0017
CP-24	basket for 24 vertical	70 x 70	1	0.095	0.0003
CP-30	basket for 30 vertical	70 x 90	1	0.110	0.0004
CP-50	basket for 50 vertical	70 x 132	1	0.140	0.0008

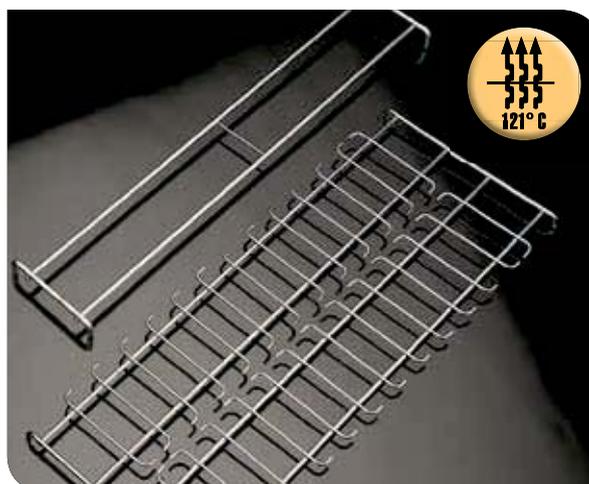


**See other staining system in Chapter 5. Microscopy and Staining**

## Stainings racks for microscope slides

Made of stainless steel.

code	description	quantity	weight	volume
S-004	for 12 slides length: 435 width: 85	1	0.210	0.0020
S-002	for 24 slides length: 435 width: 175	1	0.410	0.0030
S-003	without divisions length: 435 width: 85	1	0.170	0.0020









3

4



### Safety containers

Containers manufactured with virgin raw materials enabling incineration; four and six liters containers are made in autoclavable polypropylene, the rest in polyethylene. Suitable for solid waste type II and III.

They are compound by a body bearing the hazard warning label, and two lids:

- The first offers an entire opening, taking advantage of the total diameter of the mouth of the container; very useful to throw away bigger volume waste. May be closed hermetically and definitively.
- The secondary one presents a partial opening, which may be closed temporarily or definitively. It embodies two devices in order to easy the extraction/disconnection of dental and analytical needles, and a 70 x 42 mm rectangular orifice.

All containers, excepting code **241500**, embody a handle.

In accordance with major European and international standards (ONU ADR, ISO 6706, BS 5404, etc...)

mod.	code	capacity l	material (body and lid)	Ø mouth mm	Ø base mm	height mm	case quantity	case weight	case volume	pallet quantity
1	<b>241500</b>	1.5	PE	148	122	134	60	10.3	0.120	720
2	<b>242000</b>	2.0	PE	148	122	162	60	10.1	0.116	720
3	<b>244000</b>	4.0	PP	195	175	172	40	11.7	0.147	480
4	<b>246000</b>	6.0	PP	220	193	201	20	7.8	0.146	240
5	<b>240007</b>	7.0	PE	210	178	240	20	8.9	0.144	240



### Needle collection container

Made of high density polyethylene. Instructions for use (in English and Spanish) are printed on the containers.

Suitable for waste type III.

Capacity: 1 liter. It features two caps. The first one has a mouth which embodies three different devices to remove needles. The other one is designed to close the container temporarily or definitively.

Can be incinerated without release of toxic fumes, like all our containers.

code	colour	dimensions mm	case quantity	case weight	case volume
<b>241400</b>	yellow	Ø mouth 70; Ø base 100; height with cap 173	76	7.9	0.15
<b>241400R</b>	red	Ø mouth 70; Ø base 100; height with cap 173	76	7.9	0.15



### Safety containers

These containers are manufactured in virgin raw materials enabling incineration.

Suitable for solid waste type II and III.

They are compound by a body bearing the hazard warning label, a handle, and two lids, allowing two using options:

- Total opening, taking advantage of the total diameter of the mouth of the container; very useful to throw away bigger volume waste.

- Partial opening, 120 mm diameter, usable for syringes, contact plates, and midsize waste.

In accordance with ONU ADR, ISO 6706, BS 5404 standards and major European standards.

mod.	code	capacity l	material (body and lid)	Ø mouth mm	Ø base mm	height mm	sales unit	sel.ut. weight	sel.ut. volume	pallet quantity
1	<b>240011</b>	11	PE PP	260	226	255	10	5.5	0.058	400
2	<b>240021</b>	20	PE PP	323	277	328	10	10.2	0.094	185
3	<b>240028</b>	25	PE PE	323	283	387	10	11.1	0.145	130

### Safety labelling

Permanent adhesion labelling to alert from risk or danger.

Labels are shiny and fluorescent.

In compliance with international safety standards.

Recommendable temperature of use:

- Codes **901531**, **901533**: from -50°C to +105°C

- Code **901538**: from + 4°C to +105°C

mod.	code	description	bag weight	bag volume	bag quantity
1	<b>901531</b>	roll of 500 labels (labels size 25 x 25 mm)	1	0.50	0.001
2	<b>901533</b>	bag of 10 units 200 x 250 mm	10	0.06	0.001
3	<b>901538</b>	roll of 13 m x 25 mm	1	0.20	0.001

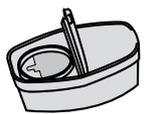




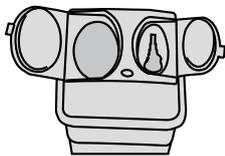
**A**  
mod. 1, 4



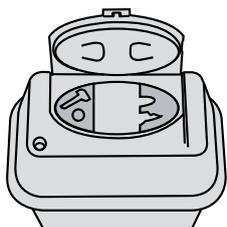
**B**  
mod. 2



**C**  
mod. 3



**A+C**  
mod. 5



**D**  
mod. 6, 7, 8

### Safety containers

Manufactured in polypropylene, they are also shockproof, perforation and solvents resistant, and can be incinerated. Two ways of locking: provisional; and permanent. **Autoclavables**. Portable models **260000** and **232806** are designed to be easy opened and closed with just one hand.

- 232810**, 0.20 l. capacity. Approximate capacity for 100 needles. Suitable for needles and lancets. Device **type A**. Easy opening and closure with just one hand.
- 260000**, 0.45 l capacity. Designed for those people who need regular injections and have to carry a needle container. With a device **type B** and a handle. Black colour.
- 232811**, 0.45 l capacity. Similar to the previous model, but in yellow colour, and featuring **device C**.
- 232806**, 0.6 l capacity. Usable for insulin needles, it is also right for complete syringes. Features a device **type A** and a handle on one side.
- 232809**, 1 l capacity. Suitable in places where waste quantity to be disposed of is small. With a handle and devices **A and C**.
- 232808**, 2 l capacity. Features devices **type D**.
- 232801**, 4 l capacity. The most used container for discarding residues in general. Embodies devices **type D** and a handle.
- 232802**, 7 l capacity. Its height makes it ideal for contaminated pipettes. With devices **type D**.

All models, excepting **232810**, **232811**, **260000**, and **232806**, embody a socket to place needle caps in vertical position. Manufactured pursuant to ISO 9001, all of them are in accordance with ADR (UN). Excepting portable models (**260000**, and **232806**) the others are also in accordance with BS 7320 and AFNOR NF X 30 500 standards. These models are constantly updated; design can be slightly modified. Suitable for solid waste type II and III.

mod.	code	capacity l	container dimensions mm	opening devices	useful capacity l	container weight g	case quantity	case weight	case volume
<b>NEW</b> 1	<b>232810</b>	0.20	79 x 37 x 146	A	0.20	64	100	6.2	0.042
2	<b>260000</b>	0.45	105 x 50 x 167	B	0.35	88	100	10.0	0.078
<b>NEW</b> 3	<b>232811</b>	0.45	105 x 50 x 167	C	0.35	88	100	10.0	0.078
4	<b>232806</b>	0.60	110 x 55 x 220	A	0.47	112	100	12.3	0.112
5	<b>232809</b>	1.00	107 x 90 x 190	A+C	0.81	125	100	13.7	0.095
6	<b>232808</b>	2.00	195 x 120 x 170	D	1.60	216	50	12.5	0.080
7	<b>232801</b>	4.00	175 x 175 x 248	D	3.00	310	50	13.7	0.157
8	<b>232802</b>	7.00	175 x 175 x 382	D	5.60	434	50	22.4	0.209

#### DEVICES:

- Oval aperture for syringes and lancets.
- Removal of needles with non return system.
- Removal of luerlock, luer slip and pen needles.
- Five kinds of aperture: an a wide one to discard elements of medium size; another one designed to remove scalpel blades; one to remove luerlock and blood collection systems; to remove butterfly and luer slip needles and the last one for insulin pen.



### Cardboard waste containers

Cardboard containers with lid, designed for storage and disposal of group II solid and semi-solid waste. With an integrated low density polyethylene bag (stuck in their interior). They can be incinerated without release of toxic fumes. The lid features two seals. One temporary that will avoid unpleasant smells and eliminate the risk of contamination while using the container. The second one is a definitive, positive seal: closing the bag with a belt already included, sealing the lids, and reinforcing them with an adhesive tape.

These containers embody lateral handles.

**Model 3**, code **250050**, 50 l capacity, is made of cardboard 2.7 mm minimal thick. PEBD 60 µ bag, adhered to the base and the walls. **Its height allows users not to need to lean forward as they throw away waste.** Easy to assemble thanks to its auto-mountable bottom. A maximum filling line is printed on its body.

**Model 4**, code **270045**, 50 l capacity, is manufactured in **reinforced cardboard, double thickness** (4 mm minimum). PEBD bag 54 µ adhered to the base. Safe closure with the help of raised edges. Both are printed with the biohazard anagram and text; assembling and closing instructions and drawings; identification formulary, and standards. In accordance with UN ADR (road transport), and manufactured pursuant to ISO 9001 standards. Containers are supplied folded up for space-saving. Those containers are not suitable for needle disposal. For this purpose see the special containers on previous pages.

mod.	code	capacity l	container dimensions mm	maximum load kg	weight ut. g	pallet dimensions	pallet weight
3	<b>250050</b>	50	263 x 263 x 756	12.5	642	100 x 120 x 180	40 x 10
4	<b>270045</b>	50	290 x 377 x 490	18.0	930	120 x 100 x 220	300

Minimum order quantity: 20 units (**it is recommended to order the whole pallet to avoid to dirty the boxes**).

### Rectangular waste containers

Made of yellow, perforation resistant, virgin polypropylene. Suitable for solid or semi-solid waste, II and III Groups. Lids feature a central handle for a better handling in the daily use and also while carrying containers.

Secure closure thanks to their fourteen closing points. Lateral handles for further help carrying. Can be incinerated with no release of toxic fumes. Stackable when empty, or full and closed. Minimum wall thickness: 2.5 mm.

In accordance with UN ADR and AFNOR NF X30 500. Manufactured following ISO 9002 and ISO 14001.

mod	code	capacity l	container dimensions mm	maximum load (ADR) kg	weight ut. g	pallet dimensions	pallet weight
1	<b>240035</b>	30	415 x 314 x 373	14	1,400	80 x 120 x 200	130
2	<b>240065</b>	60	415 x 314 x 575	25	2,000	80 x 120 x 200	115

Minimum order quantity: code **240035** : 10 units, code **240065**: 5 units.



### Bags for Autoclave

Printed with the biohazard graphic symbol and instructions of use in five languages. Do not close the bags hermetically when placing them in the autoclave.

code	dimensions cm	thickness microns	case quantity	case weight	case volume
200100	50 x 75	30	100	1.80	0.004
200310	30 x 60	35	500	5.90	0.023
200311	40 x 75	40	300	6.60	0.019
200312	60 x 75	40	200	7.10	0.019
<b>NEW</b> 200318	75 x 90	40	100	6.40	0.019

We can print these bags with your logotype.  
(Minimum order quantity: 50.000 pieces.)



### Autoclave resistant red bags

Heavy duty, high impact biohazard bags made of a 0.055 mm thick high molecular weight polypropylene blend. They are **autoclavable** to 138°C, saving autoclave time.

Bags printed with the standard biohazard warning symbol and precautionary procedures in four languages: English, Spanish, French and German.

They feature a **sterilization indicator** patch that darkens when exposed to steam sterilization. Do not close the bags hermetically when placing them in the autoclave.

code	dimensions cm	volume l	case quantity	case weight	case volume
200320	48 x 58	24.4	200	5.10	0.011
200321	65 x 91	75.1	200	10.14	0.020
200322	78 x 96	121.0	200	13.25	0.020



### Bottles for sterilization

Made of soda glass 3.3. **Autoclavable** up to 140°C.

Graduations printed in white colour. Screw caps made of blue polypropylene. Ribbed screw caps for a better handling. Drip ring on bottle neck to avoid dripping. Ideal for chemical reagents and culture media.

code	capac. ml	screw	Ø ext. mm	height mm	case quantity	case weight	case volume
402001	100	GL45	56	100	10	1.74	0.005
402002	250	GL45	70	138	10	2.60	0.009
402005	500	GL45	86	176	10	3.86	0.016
402010	1,000	GL45	101	225	10	6.12	0.029
402020	2,000	GL45	136	260	10	10.54	0.059

## Sterilization indicator strips

**Multiparameter**, chemical indicator strips designed to monitor exposure to **steam** or **EO** sterilization. Consist on a 1.8 x 15.6 cm paper strip, printed with a long strip of indicator ink which provides a visual color change to verify that the sterilant has penetrated into the pack and confirm that sufficient exposure conditions have occurred.

**Class 5** indicators according to **EN ISO 11140-1**.

Code **191030**: for **Ethylene Oxide** (EO gas)

Printed ink changes from pink to blue (see A) while exposure to different parameters: gas concentration, duration, temperature and relative humidity.

Code **191031**: for **Steam** (moist heat)

Ink changes from purple to green (see B) while exposure to different parameters: time, temperature and saturated steam. It can monitor different steam sterilization cycles (15 minutes at 121°C; or 3.5 minutes at 141°C).

Case with 200 strips that can be easily separated in two short strips at the perforation mark. It enables:

-A complete strip may be used when a confirmation of the sterilization process is required for the sterilization records.

After sterilization the strip is divided, so one short strip goes with the sterilized stuff, and the other remains with the documentation.

-If no records are required, the strip can then be divided, so the user obtains 400 individual tests.

mod.	code	description	case quantity	case weight	case volume
1	<b>191030</b>	EO sterilization indicator strip	200	0.57	0.0001
2	<b>191031</b>	Steam sterilization indicator strip	200	0.57	0.0001



## Sterilization indicator tapes

Self-adhesive sterilisation indicator tapes made of semicreped paper. It sticks on different surfaces such as plastic, metal, fabrics, paper, cardboard... Thickness range from 0.15 mm to 0.17 mm depending on the model. Tape will remain affixed for 18 months.

**191050**: indicator for sterilisation by ethylene oxide gas.

The word **GAS** printed in brown changes to green once it has been sterilized. Following the specifications:

- exposition to 500 mg/l EO and 60% RH for minimum 30 min at 30°C

- exposition to 12% EO and 60% RH for minimum 48 min at 54°C.

**191051**: indicator for sterilisation with poupinel method (dry heat). The green strips turn to brown by the effect of time and temperature as per the following specification:

- exposition a minimum 20 min at 160°C or more in dry air.

**191052**: indicator for sterilisation with steam.

The white strips turn to dark brown by the effect of time, temperature and saturated steam as per the following specification:

- exposition at 121°C for 10 min

- exposition at 134°C for 2 min.

mod.	code	type of sterilisation	length mm	width mm	case quantity	case weight	case volume
1	<b>191050</b>	ethylene oxide gas	50	19	8	1.06	0.0048
2	<b>191051</b>	dry heat (poupinel)	50	19	8	1.06	0.0048
3	<b>191052</b>	autoclave	50	19	8	1.06	0.0048



## Sterilization indicator tapes

For steam **autoclave**.

Resistance to cold: -40°C.

**Model 1**: The tape has printed on it **CONTAMINATED**.

After sterilisation to +121 °C the word **STERILIZED** appears.

**Model 2**: The tape has printed on it **-Batch, -Con.** (Control) and **-Date**. After sterilisation to +121 °C the word **STERILIZED** appears.

mod.	code	description	case quantity	case weight	case volume
1	<b>191222</b>	roll of 19 mm x 13 m	8	0.80	0.0004
2	<b>191223</b>	roll of 19 mm x 13 m	8	0.80	0.0004





### Coloured adhesive tapes for sample identification

Ideal for use in freezers, autoclaves, etc... Peel off without leaving a sticky residue.

Withstand temperatures from  $-50^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$ . High resistance to oils, acids, water etc...

Suitable for glass, plastic, paper, metal and rubber surfaces.

Can be marked with pencil, ball-point pen ...

Tape roll inside diameter: 13 m rolls: 26 mm, 55 m rolls: 76 mm.

All tape models are 19 mm wide.

The code **191220** is a 12 roll tape metal dispenser that accepts 13 m rolls.

code	colour	tape length m	case quantity	case weight	case volume
<b>191221/1</b>	white	13	16	0.64	0.001
<b>191221/2</b>	red	13	16	0.64	0.001
<b>191221/3</b>	yellow	13	16	0.64	0.001
<b>191221/4</b>	green	13	16	0.64	0.001
<b>191221/5</b>	orange	13	16	0.64	0.001
<b>191221/6</b>	blue	13	16	0.64	0.001
<b>191221.1</b>	white	55	12	1.25	0.001
<b>191221.2</b>	red	55	12	1.25	0.001
<b>191221.3</b>	yellow	55	12	1.25	0.001
<b>191221.4</b>	green	55	12	1.25	0.001
<b>191221.5</b>	orange	55	12	1.25	0.001
<b>191221.6</b>	blue	55	12	1.25	0.001
<b>191220</b>	dispenser	-	1	1.07	0.005

Minimum order quantity: 1



### Adhesive labels

White colour.

code	description	bag quantity	bag weight	bag volume
<b>901031</b>	54 x 36 mm printed	2 x 5,000	1.20	0.010
<b>901031.2</b>	54 x 36 mm plain	2 x 5,000	1.20	0.010
<b>901041</b>	50 x 30 mm printed	1 x 10,000	1.20	0.010
<b>901016</b>	50 x 30 mm plain	1 x 10,000	1.20	0.010
<b>901030</b>	35 x 25 mm printed	1 x 7,000	1.20	0.010



### Pipetting bulb

Made of rubber. Used to avoid mouth pipetting and contamination risk.

Can be opened, cleaned and autoclaved.

Ideal for Wintrobe and Westergren pipettes.

code	description	bag quantity	bag weight	bag volume
<b>19201</b>	red pipetting bulb	1	0.10	0.001



1. Evacuate the air by pressing the bulb, as the drawing indicates.
2. Intake by pressing on point B (↻).
3. Drain the liquid by pressing on point A (⬇).
4. Blow out the pipette by pressing as the drawing indicates (point C).

### EUROTUBO® Pipetting bulb

This one-handed design is the simplest safety pipette filler to use available. Manufactured in natural orange rubber.

Approx. drawn capacity: 25 ml.

Single hand use, only two operating points.

Evacuate via the automatic valve.

Standard model, accommodates all pipettes. Ability to clean inside of bulb by removing patented valve and rinsing out.

code	description	bag quantity	bag weight	bag volume
<b>19200</b>	pipetting bulb	1	0.10	0.002



### Pipette pumps

Several models for various pipette volumes.

Designed for fast and efficient pipetting with simple, one handed operation.

Pipettes fit smoothly into collar.

Rotate the knurled thumb wheel on the side for precision filling or dispensing, and press the fast release lever for quick emptying.

Easy to use and easily disassembled for cleaning.

Sizes are colour coded.

Pipette pumps resist acids and alkalis.

code	description	colour	bag quantity	bag weight	bag volume
<b>W-100</b>	up to 2 ml	blue	1	0.05	0.0001
<b>W-110</b>	up to 10 ml	green	1	0.05	0.0001
<b>W-120</b>	up to 25 ml	red	1	0.05	0.0001



### Pipette pump support rack

Made of acrylic resin and designed to keep in position 4 pipette pumps.

Suitable for the above pipette pumps.

code	dimensions mm	bag quantity	bag weight	bag volume
<b>W-150</b>	109 x 208 x 144	1	0.45	0.004





### Safety glasses

CE (PPE)

Made of polycarbonate (1 mm thickness).  
Scratch resistant, antifogging, antistatic lenses.  
Protect against UV rays.  
With lateral vents. Conform to EN 166 standard.

code	description	quantity	weight	volume
19385	glasses	5	0.34	0.005



### Safety glasses

CE (PPE)

Made of polycarbonate (2 mm thickness).  
Can be worn over conventional corrective glasses.  
Conform to EN 166, EN 167, EN 168, EN 169, EN 170, EN 171, y EN 172. standard.

code	description	quantity	weight	volume
19386	glasses	6	0.34	0.005



### Emergency eyewash bottle

Made of low density polyethylene, the bottle is flexible and easy to squeeze. The bottle has an eyecup with a snap-on cap. The eyecup has a perforated plate to break up the stream providing a gentle spray to the eye. A capped air vent valve prevents drawback of contaminated eye wash into bottle. Contaminated wash exits through a drain tube, which rotates in any direction.

Instructions for use printed in various languages.

Bottle capacity: 1 l.

**Supplied empty.**

code	capacity ml	case quantity	case weight	case volume
19384	1,000	1	0.30	0.030



### Emergency eyewash bottle with holder

Made of low density polyethylene, the bottle is flexible and easy to squeeze. The bottle features an eyecup with a cap. The eyecup has a perforated plate to break up the stream providing a gentle spray to the eye. Contaminated eyewash drips into the container attached to the cap, thus preventing any liquid from entering the bottle. Includes a green 440 x 370 mm polystyrene holder.

Supplied with screws. Bottle capacity: 1 l.

Instructions for use enclosed.

**Supplied empty.**

code	capacity ml	case quantity	case weight	case volume
19387	1,000	1	0.87	0.028

### Wash bottles

Made a combination of high and low density polyethylene. Translucent bottle, with HDPE cap (blue), delivery tube and seal cap (natural).

Bottle caps are ribbed for a better handling.

High resistance to all liquids, acids and bases.

Include a large neck for safe and easy filling.

code	capac. ml	neck mm	base mm	height mm	case quantity	case weight	case volume
<b>44330000</b>	250	30	65	155	90	7.50	0.090
<b>44300000</b>	500	30	75	185	60	5.50	0.090
<b>44310000</b>	1,000	30	90	222	45	6.00	0.120

### Wide mouth wash bottles

Translucent polyethylene bottles, with screw cap and delivery tube available in 3 different colours (blue, yellow and red) for easy identification. Feature a one piece cap and delivery tube assembly, thus eliminating air or liquid absorption through the cap. Include a wide neck for safe and easy filling. Ribbed caps for a better handling while opening and closing. Moulded-in graduations. 250 ml model is graduated in 25 ml increments, 500 ml model, in 100 ml increments.

code	capac. ml	neck mm	base mm	height mm	case quantity	case weight	case volume
<b>191637</b>	250	40	60	140	10	0.80	0.014
<b>191638</b>	500	40	75	165	10	0.90	0.016

Please indicate required cap colour: (04) blue, (06) yellow, (10) red.

### Integral wash bottles

Made of translucent polyethylene. Feature a one piece cap and delivery tube assembly, which eliminates air or liquid absorption through the cap and ensures a positive leaktight seal. To increase liquid flow, cut the tip of the delivery tube; close the tip by means of the cap attached to the delivery tube. Caps are ribbed for a better handling while opening and closing.

Tagging points on neck and cap for a tamper proof closure. Bottles include a fill in line.

code	capac. ml	height mm	neck d/n std.	case quantity	case weight	case volume
<b>191633</b>	250	143	GL32	10	0.65	0.008
<b>191634</b>	500	181	GL32	10	0.80	0.015





### Wood tongue depressors

CE (MDD)

Tongue depressor with smooth rounded edges. Made from high-quality wood to provide a smooth, splinter-free finish. Odour and taste-free. Maintains a high tensile strength. In addition to their traditional use, depressors can be used for spreading balms and ointments, for stirring liquids or mixing medicine, etc... The sterile models are supplied with "instructions for use".

Adult size 15 x 1.8 cm. Children size 11.5 x 1 cm.

code	size	description	case quantity	case weight	case volume	cases per pallet
441142	adult	non sterile	50 x 100	15.50	0.039	40
441242.2	adult	ethylene oxyde sterilized flow-pack	4 x 500	12.30	0.066	27
441142.0	children	non sterile	100 x 100	15.00	0.032	40

Sterile models are supplied with "instructions for use".



### Plastic tongue depressors

CE (MDD)

Made of polystyrene.

Colour: cream. Tongue depressor with smooth rounded edges. Odour and taste-free. Maintains a high tensile strength. More flexible than wood depressors. Features a ribbed finger rest for easy handling. In addition to their traditional use, depressors can be used for spreading balms and ointments, for stirring liquids or mixing medicine, etc... Size: 16 x 2 cm.

code	description	case quantity	case weight	case volume	cases per pallet
441142.1	non sterile	6 x 250	8.70	0.014	108
441142.2	ethylene oxyde sterilized flow-pack	4 x 500	12.66	0.066	27

Sterile models are supplied with "instructions for use".



### Absorbent paper

This 120 gsm absorbent paper provides a total protection thanks to its two layers. The top side consists of a layer of cellulose of great liquid absorption power; the reverse side consists of a layer of polyethylene ensuring that it is completely waterproof.

For use in the following applications:

- laboratory trays and tables protection,
- pathological anatomy laboratories,
- seed germination (between-paper method),
- spillage recovering using its leaktight surface,
- particularly suitable for working with materials that are valuable (precious metals) or hazardous (toxic or corrosive materials).

Paper thickness: 0.244 mm.

Absorption: 170 g/m<sup>2</sup>. Klemm absorption: 86 mm.

code	description	case quantity	case weight	case volume
120003	50 m x 50 cm reel	1 reel	5.00	0.0165
120002	50 x 50 cm sheets	1x100 sheets	2.90	0.005

### Filter paper

Our range of filter paper reams is made from high quality cellulose fibres to ensure a good resistance to humidity and a high absorption capacity. Pore diameter: +/- 30-40 microns. For use in the following applications:

- laboratory worktop protection,
- simple filtering operations for varied products,
- labware sterilisation,
- pharmaceutical product preparation.

code	sheet size cm	grammage	thickness mm	Klemm absorp. (mm)	case quantity	case weight	case volume
120010	50 x 50 cm	73 g	0.151	89	1x100 sheets	1.85	0.005

### Concentrated deodorant Nilodor

Scientifically elaborated concentrated deodorant. Ideal for hospitals (in microbiology, autopsy and oncology applications), veterinary clinics, private homes and farms to avoid unpleasant smells from animals.

This product does not cover odours.

On the contrary it quickly **NEUTRALISES AND ELIMINATES** them.

Non toxic.

Does not contaminate.

Does not leave stains.

2 versions available: spray or concentrated liquid.

Spray comes in a plastic bottle; liquid is supplied in a glass bottle.

Expiration date: 5 years.

code	description	case quantity	case weight	case volume
910000	liquid, 7.5 ml bottle (200 drops)	12	0.54	0.0018
911000	spray, 100 ml bottle	15	2.00	0.0027



### Urine collection bottle

CE (MDD)

Made of polyethylene.

Colour: natural. Collection bottle for male urine, including a 110 mm handle. The bottle has moulded-in graduations in 100 ml increments up to 1,000 ml. Total capacity: 1.1 l. Rounded rim on the neck of the bottle. Inner diameter of the neck is 50 mm, outer diameter is 69 mm. Supplied **individually wrapped**.

Can be sterilised by ethylene oxide.

code	total capacity	case quantity	case weight	case volume	cases per pallet
19591	1 l	60	7.40	0.152	24



### Urine collection bottle with lid

CE (MDD)

With the same characteristics than the previous model this one features a plug in lid.

**Individually wrapped.**

code	total capacity	case quantity	case weight	case volume	cases per pallet
19591/T	1 l	60	8.00	0.152	24

### Bed pan

CE (MDD)

Made of white polypropylene.

Especially designed for disabled people, for the collection of urine and faeces. Features **rounded edges** for more comfort.

L-shaped handle for a better handling.

Allows a secure one-handed grip and avoids accidental spillage.

Useful for hanging on handles, beds, etc.

Total capacity: 2.5 l.

**Autoclavable.**

Can be washed in automatic machines.

Supplied **individually wrapped**.

code	dimensions mm	case quantity	case weight	case volume	cases per pallet
19586	440 x 270 x 95	20	5.00	0.140	16





### Hygienic aerosol

It forewarns from hand-spread infections thanks to its antiseptic formula.

It is composed by a pulverisation device (35 x 10 cm), made of ABS, and a 250ml interchangeable aerosol bottle (to be only used with the device).

#### Characteristics:

- Quick, efficient and practical system.
- Small, autonomous, and easy to use device.
- Easy to install in any place and in few seconds.
- No maintenance needed.
- Antiseptic diffusion by pulverisation.
- Instantaneous drying.
- Excellent cutanea tolerance.
- No risk of retro-contamination of the recipient.

#### To be used over clean and dry hands in:

- Hospital rooms.
- Medical cabinets, sampling rooms, nursing, white rooms...
- Laboratories.
- Sanitary vehicles.

#### Composition and microbiological properties:

- Ethanol 70% vol.
- Qsp 100 ml, Camphor 0,20 g.
- Qsp 100 ml, Tartrazine 0,0002 g.
- Bactericide (pr EN 12054).
- Active in 1 minute over staphylococcus aureus, escherichia coli, enterococcus hirae.
- Active over Candida Albicans (NF EN 1275).
- Propulsion gas = nitrogen (ecological)

**Referenced in the Positive List of Disinfectants (PLD) 2008**, publish by la Société Française d'Hygiène Hospitalière (SFHH).

It may be installed using supplies already included in each unit: self-adhesive ribbon or screws.

This product has to be transported in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID	Class	Code	Label	LQ	Provis.
	2	5F	2.1	LQ2	190-625
IMDG	Class		LQ	EMS	Dispo.
	2		SP277	F-D,S-U	63 190 191 277 913
IATA	Class	2nd Label	Passenger	Passenger	Cargo
	2	2.1	203	75 kg	203

code	description	case quantity	case weight	case volume	cases per pallet
912000	250 ml aerosol bottle	12	3.6	0.009	720
913000	pulverisation device	1	0.14	0.003	720



### Alcohol pads

Desinfecting pads with 70% isopropyl alcohol, made from a smooth, fiber-free fabric. Ideal for use as an antiseptic for cleaning small areas. Supplied in aluminium bags.

code	dimensions cm	case quantity	case weight	case volume
192925	7 x 3.5	20 x 100	3.00	0.010

### Hospital swabs

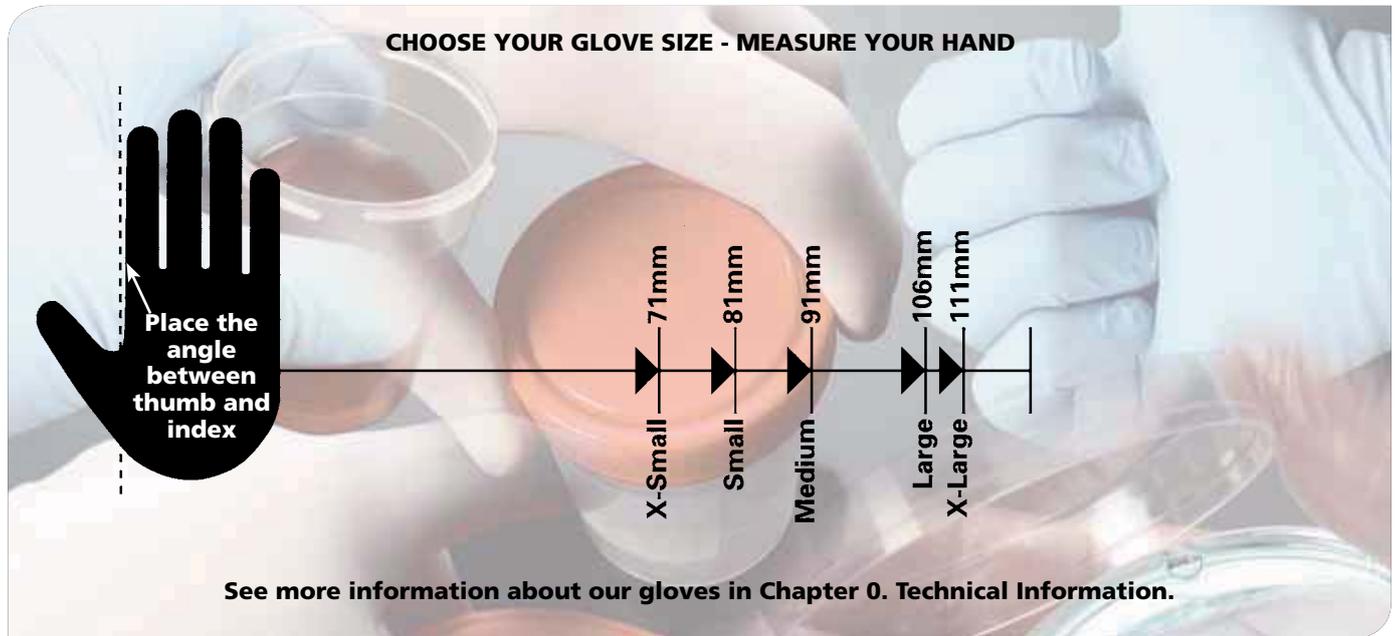
CE (MDD)

Cotton tip Ø 11 mm.

Swabs designed for cleaning and disinfection when tip is soaked in a disinfectant, thus reducing the risk of a direct contact between user's hands and the wound or surface to clean.

mod.	code	description	case quantity	case weight	case volume
1	300234	wood + cotton 150 x 2.5 mm	20 x 50	2.20	0.030
2	300236	polypropylene + cotton 150 x 4 mm	20 x 50	2.30	0.030
3	300237	polypropylene + cotton 200 x 4 mm	10 x 50	3.30	0.049





### Nitrile gloves

CE (PPE) CE (MDD)

Single use gloves made of Butadiene Nitrate (Nitrile).  
Medical and laboratory use, non sterile gloves.  
Ambidextrous. Hypoallergenic.  
Gloves are available **powder-free**. 100 units per case.  
Minimum length: 280 mm.

**AQL 1.5. In compliance with the EN 455, EN 374 and EN 420 European standard; and with the ASTM D 6319 American standard.**

code	size	description	case quantity	case weight	case volume
<b>402NP</b>	small (6-7)	powder-free	10 x 100	6.90	0.030
<b>402NM</b>	medium (7-8)	powder-free	10 x 100	6.50	0.030
<b>402NG</b>	large (8-9)	powder-free	10 x 100	6.10	0.030

Cases per pallet: 63



### Vinyl gloves

CE (PPE) CE (MDD)

Single use gloves made of top quality polyvinyl. Non sterile gloves. Designed for medical use. Ambidextrous. Hypoallergenic (powder-free gloves). Gloves are available **powder-free** or **pre-powdered**. Both models feature beaded cuffs. 100 units per case.  
Minimum length: 240 mm.

**AQL 1.5. In compliance with: EN 455, EN 374 and EN 420 European standard; and with the ASTM D 5250 American standard.**

code	size	description	case quantity	case weight	case volume
<b>202VP</b>	small (6-7)	powder-free	10x100	6.08	0.030
<b>202VM</b>	medium (7-8)	powder-free	10x100	6.44	0.030
<b>202VG</b>	large (8-9)	powder-free	10x100	7.66	0.030
<b>200VP</b>	small (6-7)	pre-powdered	10x100	6.02	0.030
<b>200VM</b>	medium (7-8)	pre-powdered	10x100	6.48	0.030
<b>200VG</b>	large (8-9)	pre-powdered	10x100	7.08	0.030

Cases per pallet: 77

## Latex gloves CE (PPE) CE (MDD)

Single use gloves made of top quality latex. Non sterile gloves. Designed for medical and laboratory use. Ambidextrous. Gloves are available **powder-free** or **pre-powdered**. Both models feature beaded cuffs. 100 units per case. Minimum length: 240 mm, average thickness 0.08 mm. **AQL 1.5. In compliance with the EEN 455, EN 374 and EN 420 European standard and with the ASTM D 3578 American standard.**

code	size	description	case quantity	case weight	case volume
<b>102LP</b>	small (6-7)	powder-free	10x100	7.10	0.030
<b>102LM</b>	medium (7-8)	powder-free	10x100	7.50	0.030
<b>102LG</b>	large (8-9)	powder-free	10x100	8.00	0.030
<b>100LSP</b>	extra-small (5-6)	pre-powdered	10x100	5.08	0.030
<b>100LP</b>	small (6-7)	pre-powdered	10x100	5.70	0.030
<b>100LM</b>	medium (7-8)	pre-powdered	10x100	5.90	0.030
<b>100LG</b>	large (8-9)	pre-powdered	10x100	6.70	0.030

Cases per pallet: 63



## Safety gloves

Provide superior protection when handling hot, cold or damp objects. Made of strong non toxic silicone rubber which resists tearing and withstands temperatures from  $-55^{\circ}\text{C}$  up to  $260^{\circ}\text{C}$ . Thumb and fingers fit into end pockets. The gripping surfaces have multiple concave tipped studs for non-slip grip (48+48 studs).

code	dimensions mm	case quantity	case weight	case volume
<b>19270</b>	190 x 100	1	0.09	0.0004



## Thermic safety gloves CE (PPE)

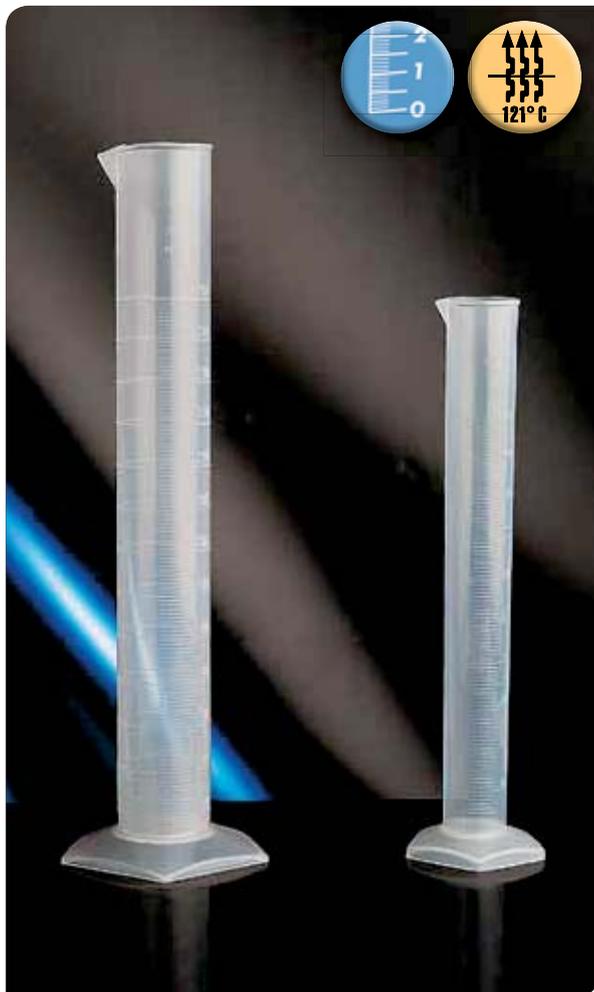
All cotton, asbestos free gloves. They are ideal for taking hot objects out not only from the autoclave but also from the oven, ... and handling them. Gauntlet with black sewn reinforcements at the edges for long lasting use. Heat resistant up to  $230^{\circ}\text{C}$ . They may be both used with the washing and the drying machine.

code	total length mm	sleeve length mm	bag quantity	bag weight	bag volume
<b>400S</b>	470	280	1 pair	0.35	0.002









### Measuring cylinders with pentagonal base

Material: polypropylene. **Autoclavable** up to 121°C.  
In compliance with ISO 6706 and BS 5404 standards.

code	capac. ml	grad. ml	subdiv. ml	O.D. Ø mm	height mm	case quantity	case weight	case volume
408025	25	5	0.5	19	195	30	0.83	0.008
408050	50	10	1.0	26	200	30	1.14	0.011
408100	100	10	1.0	31	250	30	1.95	0.018
408250	250	20	2.0	41	315	12	1.45	0.015
408500	500	50	5.0	56	360	12	2.45	0.029
481000	1,000	100	10.0	66	440	6	2.13	0.030
482000	2,000	200	20.0	80	530	6	3.25	0.051

Minimum order quantity: 1.



### Graduated measuring cylinders pentagonal base

Made of polypropylene. **Autoclavable** up to 121°C.  
ISO 6706 and BS 5404 standards.

#### POLYPROPYLENE

code	capac. ml	grad. ml	subdiv. ml	O.D. Ø mm	height mm	case quantity	case weight	case volume
192561	25	5	0.5	19	195	30	0.85	0.008
192562	50	10	1.0	26	200	30	1.15	0.011
192563	100	10	1.0	31	250	30	2.00	0.018
192564	250	20	2.0	41	315	12	1.50	0.015
192565	500	50	5.0	56	360	12	2.45	0.029
192566	1,000	100	10.0	66	440	6	2.15	0.030
192567	2,000	200	20.0	80	530	6	3.25	0.051

Minimum order quantity: 1.

Made of **TPX**. **Autoclavable** up to 170 °C.  
ISO 6706 and BS 5404 standards.

#### TPX

code	capac. ml	grad. ml	subdiv. ml	O.D. Ø mm	height mm	case quantity	case weight	case volume
192571	25	5	0.5	19	195	30	0.85	0.008
192572	50	10	1.0	26	200	30	1.15	0.011
192573	100	10	1.0	31	250	30	1.95	0.018
192574	250	20	2.0	41	315	12	1.45	0.015
192575	500	50	0.5	56	360	12	2.45	0.029
192576	1,000	100	10.0	66	440	6	2.15	0.030
192577	2,000	200	20.0	80	530	6	3.25	0.051

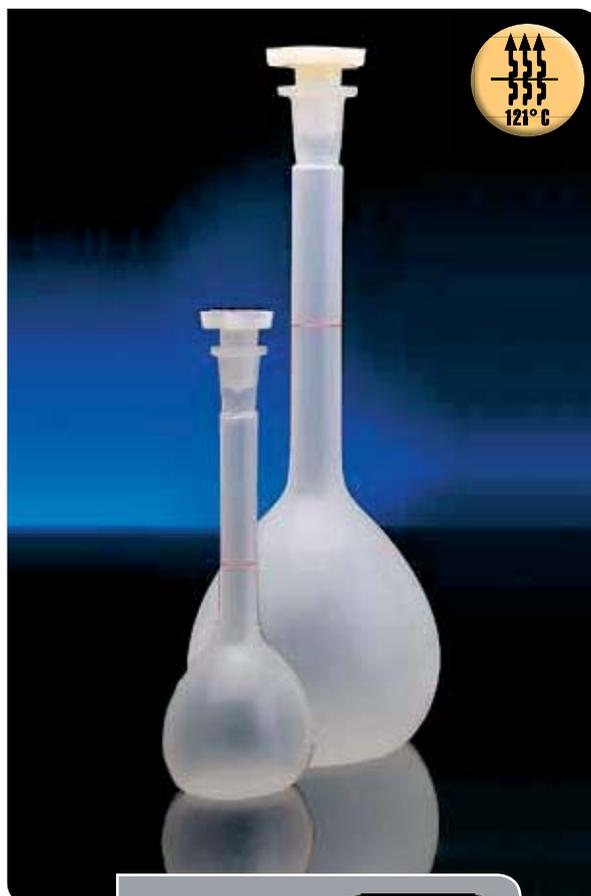
Minimum order quantity: 1.

### Volumetric flasks with stopper

Material: polypropylene. **Autoclavable** up to 121 °C.

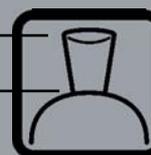
code	capac. ml	neck	case quantity	case weight	case volume
<b>191484</b>	25	12 / 21	20	0.27	0.003
<b>191485</b>	50	14.5 / 23	20	0.35	0.004
<b>191486</b>	100	14.5 / 23	20	0.55	0.008
<b>191487</b>	250	19 / 26	10	0.60	0.009
<b>191488</b>	500	19 / 26	10	0.70	0.015
<b>191489</b>	1,000	19 / 26	5	0.65	0.015

Minimum order quantity: 1.



Upper neck

Lower neck



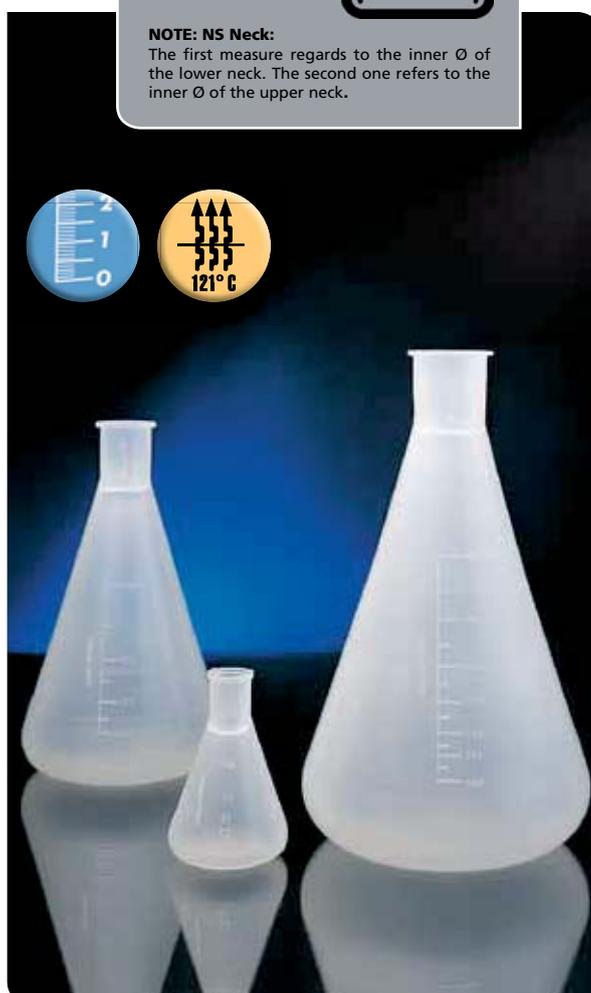
**NOTE: NS Neck:**

The first measure regards to the inner Ø of the lower neck. The second one refers to the inner Ø of the upper neck.

### Erlenmeyer flasks

Material: polypropylene. **Autoclavable** up to 121 °C. Graduated.

code	capac. ml	grad. ml	neck	quantity	weight	volume
<b>191460</b>	50	10	14.5 / 23	1	0.02	0.001
<b>191461</b>	125	25	14.5 / 23	1	0.03	0.001
<b>191462</b>	250	25	19 / 26	1	0.06	0.001
<b>191463</b>	500	50	24 / 29	1	0.10	0.002
<b>191464</b>	1,000	50	29 / 32	1	0.20	0.002
<b>191465</b>	2,000	100	34.5 / 35	1	0.40	0.002





### Graduated beakers

Made of TPX. **Autoclavable** to 170 °C.  
ISO 6706 and BS 5404 standards.

code	capac. ml	subdiv. ml	Ø mm	height mm	case quantity	case weight	case volume
191720	25	1	35	49	20	0.40	0.003
191721	50	2	42	60	20	0.70	0.004
191722	100	5	52	72	12	0.70	0.005
191723	250	10	71	96	16	1.45	0.011
191724	500	10	90	120	12	2.10	0.016
191725	1,000	20	110	149	4	1.20	0.010
191726	2,000	50	135	184	4	2.00	0.018
191727	3,000	500	160	200	2	1.80	0.016

Minimum order quantity: 1.



### Graduated beakers

Made of transparent polypropylene. **Autoclavable** a 121 °C.  
ISO 6706 and BS 5404 standards.

code	capac. ml	subdiv. ml	Ø mm	height mm	case quantity	case weight	case volume
191821	25	1	35	49	20	0.20	0.002
191822	50	2	42	60	20	0.35	0.004
191823	100	5	52	72	12	0.35	0.005
191824	250	10	71	96	16	0.75	0.011
191825	500	10	90	120	12	1.05	0.016
191826	1,000	20	110	149	4	0.60	0.010
191827	2,000	50	135	184	4	1.00	0.018
191828	3,000	500	160	200	2	0.90	0.016
191829	5,000	500	191	230	2	1.40	0.024

Minimum order quantity: 1.



### Graduated beakers

Material: transparent polypropylene. **Autoclavable** up to 121 °C.  
In compliance with ISO 6706 and BS 5404 standards.

code	capac. ml	Ø mm	height mm	case quantity	case weight	case volume
409025	25	35	50	20	0.18	0.003
409050	50	42	60	20	0.35	0.004
409100	100	53	72	12	0.33	0.005
409250	250	71	96	16	0.72	0.011
409500	500	90	120	12	0.88	0.016
491000	1,000	110	149	4	0.65	0.016
492000	2,000	135	184	4	1.00	0.018
493000	3,000	160	200	2	0.88	0.016
495000	5,000	191	230	2	1.38	0.024

Minimum order quantity: 1.



### Beakers with three spouts

**Graduated** beakers made of ultra clear polypropylene **Autoclavable** up to 121 °C.

Disposable.

Moulded-in graduations.

code	volume ml	case quantity	case weight	case volume
490050	50	100	1.31	0.010
490100	100	100	1.36	0.010
490250	250	100	2.54	0.020
490400	400	100	2.81	0.020
490900	900	100	5.90	0.060

Minimum order quantity: 10.

### Conical measuring flasks

In polypropylene. **Autoclavable** up to 121 °C.

code	volume ml	height mm	case quantity	case weight	case volume
19423	250	160	18	1.30	0.020
19424	500	180	8	1.00	0.015
19425	1,000	270	3	1.00	0.017

Minimum order quantity: 1.

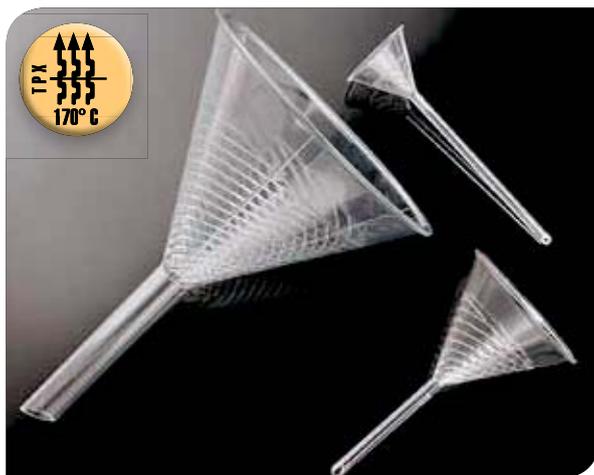




### Analytical funnels

Material: polypropylene. **Autoclavable.**  
60°C angle.

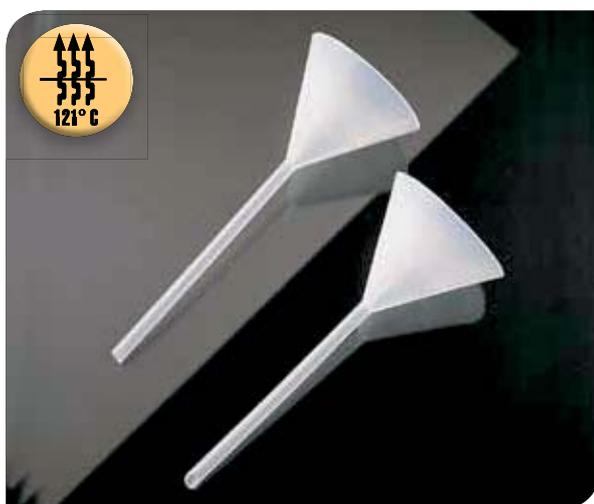
code	Ø mm	stem Ø mm	case quantity	case weight	case volume
19145	25	4	20	0.06	0.0030
19146	35	5	20	0.08	0.0040
19147	45	5	20	0.10	0.0050
19148	65	9	20	0.30	0.0060
19150	80	10	20	0.50	0.0126
19152	100	11	1	0.03	0.0008
19153	120	11	1	0.04	0.0009



### High speed funnels

Material **TPX**. With interior helicoid channels for a quicker filtration. Prevents the filter paper from sticking. Transparent. **Autoclavable.**

code	Ø mm	stem Ø mm	length mm	case quantity	case weight	case volume
19175	51	3	150	6	0.74	0.01
19172	70	3	150	6	0.12	0.01
19173	100	7	108	4	0.17	0.01
19174	140	10	132	6	1.30	0.02



### Long-stem funnels

Material: polypropylene. 60°C angle. **Autoclavable.**

code	Ø mm	stem Ø mm	length mm	case quantity	case weight	case volume
19162	60	8	150	10	0.20	0.005
19164	80	8	150	10	0.30	0.006
19165	100	8	150	10	0.60	0.006



### Funnels

Material: polypropylene. **Autoclavable.**

code	diameter mm	quantity	weight	volume
194171	80	1	0.02	0.0004
194172	100	1	0.02	0.0005
194173	120	1	0.04	0.0006
194175	180	1	0.13	0.0006
194176	220	1	0.30	0.0015
194177	260	1	0.40	0.0020
194178	300	1	0.50	0.0022

## Powder funnels

Material: polypropylene. **Autoclavable**. 60° angle.

code	Ø ext. mm	stem Ø mm	case quantity	case weight	case volume
19171	60	15	20	0.37	0.002
19167	80	15	20	0.40	0.005
19168	100	25	20	0.60	0.009
19169	120	30	1	0.05	0.001
19170	150	35	1	0.06	0.001
19166	180	40	1	0.12	0.002

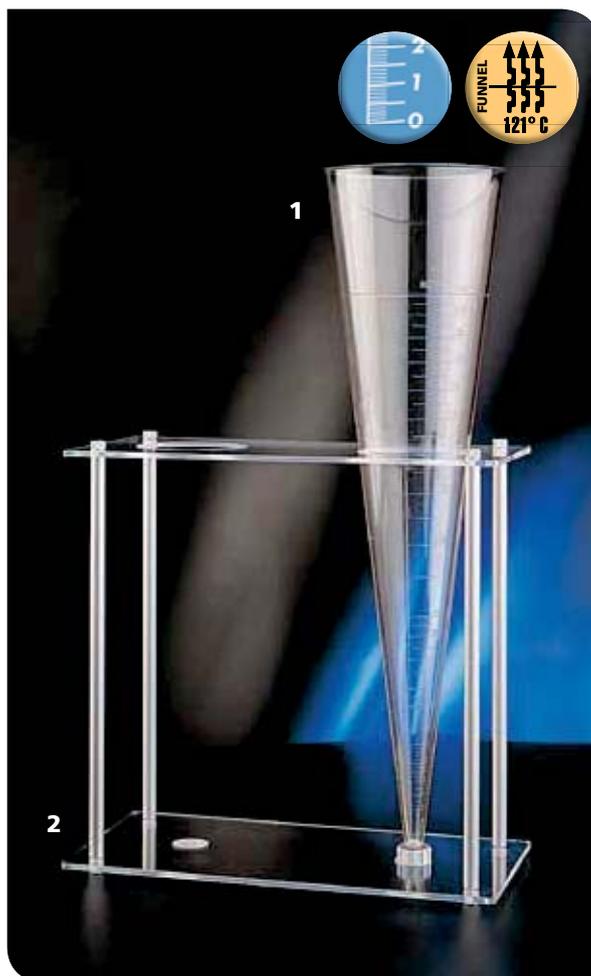


## «IMHOFF» sedimentation cone

Material: SAN.

Moulded graduations according to DIN standards 12672.

mod.	code	capac. mm	Ø mm	height mm	case quantity	case weight	case volume
1	191055	1,000	125	480	4	1.70	0.019



## Rack for sedimentation cones

Material: PMMA.

For 2 cones.

mod.	code	dimensions mm	case quantity	case weight	case volume
2	191056	150 x 300 x 290	1	1.20	0.001

## Büchner funnels

Material: polypropylene.

Unbreakable and resistant to corrosion and heat.

Easily dismantled for cleaning. **Autoclavable**.

code	capac. ml	Ø mm	holes mm	case quantity	case weight	case volume
19437	40	42,5	1	1	0.05	0.005
19438	70	55	1	1	0.07	0.001
19440	285	80	1.5	1	0.13	0.002
19441	390	90	2	1	0.20	0.003
19442	810	110	2	1	0.30	0.004
19443	2,100	160	2.5	1	0.60	0.012
19445	6,000	240	3	1	1.00	0.028





### Burette clamps

Made of **autoclavable** polypropylene.

Clamps can fit onto rods  $\varnothing$  8 to 14 mm. Stainless steel centre arm includes a spring and firmly holds in place the burette by means of rubber pads. Burette clamps do not obscure graduations.

Suitable for all burettes. Base is supplied separately, see details below.

mod.	code	description	case quantity	case weight	case volume
1	<b>19139</b>	for 1 burette	5	0.30	0.002
2	<b>19140</b>	for 2 burette	5	0.40	0.003

Minimum order quantity: 1.

### Rectangular base for burettes

Base made of autoclavable polypropylene, with chromium plated steel rod. Rods can be screwed one onto the other to obtain different heights.

All models come with 2 rods of  $\varnothing$  250 x 12 mm.

2 models available: base with central hole, and base with off centre hole.

mod.	code	description	case quantity	case weight	case volume
3	<b>19266</b>	base with central hole and + 2 rods	1	0.75	0.002
4	<b>19267</b>	base with off-centre hole and + 2 rods	1	0.80	0.002

Rods available separately.

Please contact our Commercial department.



### Separation funnel holder

Made of **autoclavable** polypropylene.

Supplied with two adaptors to fit support rods diameter 8 to 14 mm. Designed for funnels  $\varnothing$  75 mm minimum.

code	description	case quantity	case weight	case volume
<b>19970</b>	for 1 funnel	5	0.25	0.002

Minimum order quantity: 1.



### Funnel holders

Made of **autoclavable** polypropylene.

2 models available, single and double holder, for funnels from 25 mm (adaptor supplied) up to 170 mm.

Without adaptor, holders can be used with powder funnels with diameter not exceeding 35 mm.

Suitable for use on  $\varnothing$  8 to 14 mm rods (which include codes **19266** and **19267** for example ) by means of adaptors (included).

code	description	case quantity	case weight	case volume
<b>19268</b>	for 1 funnel	5	0.35	0.002
<b>19269</b>	for 2 funnels	5	0.65	0.006

Minimum order quantity: 1.

## Pipette stand

Made of polypropylene. Consists of a rounded base with a rod, and a circular pipette stand to hold up to 28 pipettes.

Base and pipette stand are supplied separately.

- Code **19262**, rounded base with rod, is specially designed to hold the pipette stand.
- The stand code **19265** accommodates 18 pipettes Ø up to 10 mm, and 10 pipettes Ø up to 15 mm.

The lower disc has little holes for liquid draining. The ring included with the stand allows its raising and lowering on the rod.

code	description	case quantity	case weight	case volume
<b>19262</b>	rounded base	1	0.22	0.002
<b>19265</b>	18 small and 10 large holes stand	1	0.35	0.008



## Flask weight ring

Heavy vinyl covered ring ideal to improve stability of Erlenmeyer flasks in water bath.

High chemical resistance.

code	erlenmeyer capacity	internal Ø mm	quantity	weight	volume
<b>192470</b>	125 - 500 ml	48	1	0.30	0.001
<b>192471</b>	250 - 1,000 ml	51	1	0.55	0.001
<b>192472</b>	500 - 2,000 ml	57	1	0.80	0.001



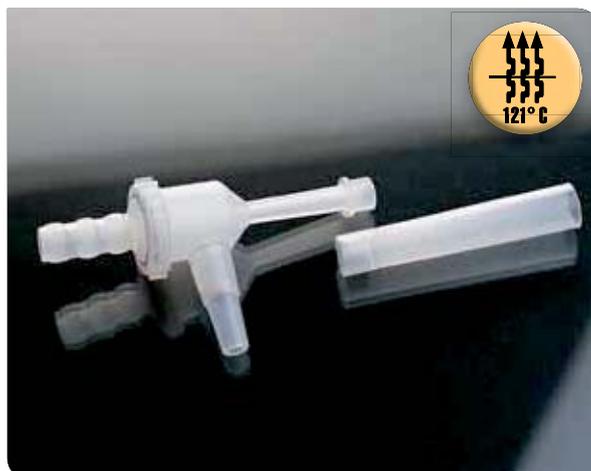
## Vacuum pump

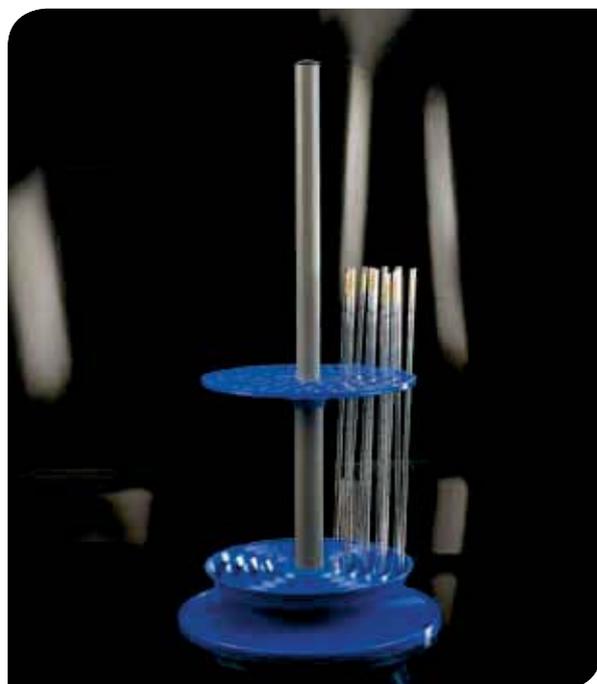
Material: polypropylene. This vacuum pump combines excellent suction capacity with limited water consumption, under low pressure (0.5-1 kg/cm<sup>2</sup>) as well as high pressure (10 kg/cm<sup>2</sup>). The built-in, non return valve protects the pump from possible water back-flow. **Autoclavable**.

Can be dismantled for easy cleaning.

code	description	quantity	weight	volume
<b>191395</b>	water jet vacuum pump	1	0.03	0.001
<b>191396</b>	connection tube	5	0.50	0.002

Minimum order quantity: 1.





### Rotary pipette stand

This stand which can hold 94 pipettes consists of 2 discs rotating on a central vertical axis for convenient pipette selection. The lower rotating disc has tapered sides and open bottoms to protect tips and allow water run off. Rotating discs are 18 cm diameter.

The pipette stand comes unassembled with instructions for quick and easy assembly.

Made of **autoclavable** polypropylene.

Can accommodate all our serology pipettes presented on page 75-76, except the 25 ml model.

code	dimensions mm (Ø x h)	case quantity	case weight	case volume
19254	230 x 480	1	0.35	0.008

### Plastic dessicator

Base: polypropylene. Cover: transparent polycarbonate. Will hold a vacuum of 740 mm Hg for 24 hours, with loss not exceeding 20 mm Hg. The cover seals onto a neoprene O ring set into the flange of the base to ensure a positive seal. Non-return valve (polycarbonate) and vacuum release tap (polyethylene) assembly included; a specially grooved stopper in this assembly allows air to be re-admitted very slowly to avoid disturbing the contents. A little grease spread on the O ring will assist in establishing initial vacuum. The dessicator includes a removable pan for holding calcium chloride or other drying agents.

code	aprox. capac. l	Ø mm	h. ext. mm	h. int. mm	case quantity	case weight	case volume
19230	4.5	200	230	175	1	2.00	0.004
19554	9.2	250	300	225	1	2.50	0.018

### Dessicator discs

CE (IVD)

Material: white polypropylene. 25 holes.

**Autoclavable.**

code	Ø mm	for dessicator	case quantity	case weight	case volume
19231	190	19230	10	0.20	0.001
19553	239	19554	10	0.30	0.001

Minimum order quantity: 1

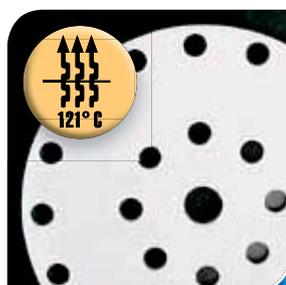
### Glass dessicator

Base and cover made of 3.3 soda glass. High resistance to chemicals. Can be used with drying agents such as calcium chloride, silica gel, phosphor pentoxide and even sulfuric acid.

Before use, clean the sealing surfaces and lubricate them with grease for vacuum.

Will hold a vacuum of 500 mm Hg for 24 hours. Dimensions: 200 mm Ø, 270 mm high. Capacity approx. 2.5 l.

code	description	case quantity	case weight	case volume
19232	dessicator with a stainless steel plate	1	5.10	0.022
19235	dessicator with a stainless plate and PTFE valve	1	5.10	0.022



### Glass water still

Automatic glass water distiller with a heater sheathed in quartz; glass and quartz allow to obtain highly pure water, as they have a very low interaction with it.

It supplies an output of three l/h of high purity water (conductivity:  $2 \mu\text{S} \cdot \text{cm}^{-1}$  a  $20^\circ\text{C}$ ) free of metallic ions and pyrogen. The water quality is considered ASTM III/IV. In order to always obtain the maximum degree of water purity, we recommend to periodically control the quality of the water supplied to the still and to maintain the inner part of the still in good cleaning conditions.

The safety thermostat interrupts the heating of the heater in case water supply fails, protecting the still and saving energy. Once the water supply is recovered, the thermostat restarts the process.

Portable.

Easy handling and cleaning.

Supplied assembled.

Dimensions mm: 550 x 150 x 500.

Electrical consumption: 2,200 W

Heater: 2.2 KW

Voltage: 230 V

Intensity: 10 A

Water consumption: 60 l/h approx.

code	description	case quantity	case weight	case volume
<b>19558</b>	glass water still	1	6.5	0.10
<b>19558.M</b>	glass water still, british plug	1	6.5	0.10
<b>19558.SP</b>	extra heater	1	2	0.05



### Stainless steel water still

Automatic stainless steel water distiller.

It supplies an output of 6 - 7 l/h of high purity water (conductivity:  $2.5 \mu\text{S} \cdot \text{cm}^{-1}$  a  $20^\circ\text{C}$ ) free of metallic ions and pyrogen. The water quality is considered ASTM III/IV (laboratory grade). In order to always obtain the maximum degree of water purity, we recommend to periodically control the quality of the water supplied to the still and to maintain the inner part of the still in good cleaning conditions.

It embodies two security systems in order to protect still from overheating and save energy: the first system controls the temperature level and turns off the still in case the temperature rises more than required. The second one interrupts the process in case water supply fails.

Easy maintenance.

Supplied assembled.

Electrical consumption: 6.000 W

Heaters: 2 x 3 KW

Voltage: 230 V

Intensity: 30 A

Water consumption: 60 – 70 l/h

code	dimensions mm	case quantity	case weight	case volume
<b>19580</b>	260 x 260 x 627	1	16	0.12





### Test tube tongs

Made of brown plastic.

High resistance to heat. Ideal for handling hot tubes or to heat test tubes.

With a longer arm for a better handling and to avoid close contact between fingers and the flames of the burner.

Total length: 17.5 cm.

code	description	bag quantity	bag weight	bag volume
19509	plastic tongs	10	0.134	0.002



See Chapter 4. Histology



### Laboratory spatulas

Material: polystyrene.

code	description	length mm	bag quantity	bag weight	bag volume
19593	spatula-spoon	210	10	0.35	0.001
19596	spatula-spoon	180	10	0.25	0.001
19595	double spatula	180	10	0.25	0.001
19594	double spatula	150	10	0.20	0.001



### Measuring scoops

Material: white polypropylene. **Autoclavable.**

code	capacity ml	length mm	bag quantity	bag weight	bag volume
191057	10	100	12	0.30	0.003
191058	25	135	12	0.30	0.004
191059	50	160	12	0.35	0.004
191060	100	200	12	0.40	0.004
191062	250	260	6	0.38	0.004
191063	500	315	6	0.46	0.005
191064	1,000	400	6	0.70	0.008



### Measuring scoops

Material: high density polyethylene.

code	capacity ml	length mm	bag quantity	bag weight	bag volume
191065	25	135	12	0.084	0.012
191066	65	185	12	0.21	0.012
191067	110	215	12	0.35	0.012
191068	150	250	12	0.45	0.012
191070	350	310	6	0.32	0.006
191071	750	350	6	0.70	0.006
191069	1,250	400	6	1.00	0.006

### PVC Pipette tray

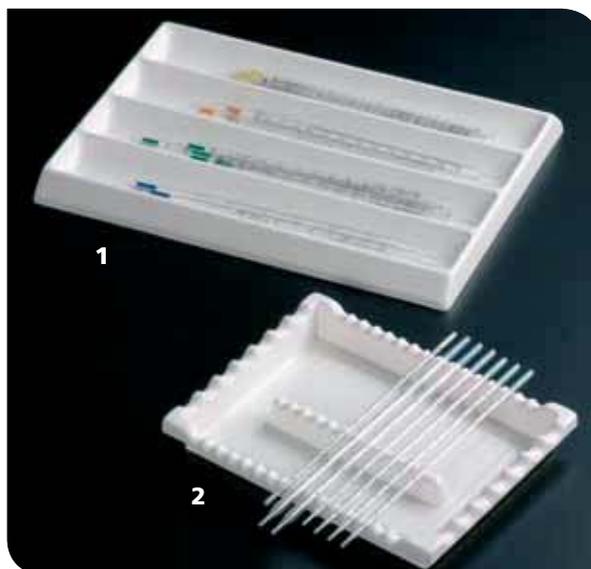
Made of white PVC, resistant to temperatures from -20 to +80°C. **Model 1**, code **19252**, is perfect to fit inside drawers. It includes four compartments that can hold up to thirty pipettes of 1, 2, 5, or 10 ml.

**Model 2**, code **19996**. Sixteen pipettes up to 10 mm diameter can be accommodated longitudinally; laterally, seven pipettes up to 20 mm diameter.

Tray edges are ergonomically designed for a better handling. It is also useful with other instruments.

See our range of pipettes on pages 78 - 79.

mod.	code	dimensions mm	case quantity	case weight	case volume
1	<b>19252</b>	426 x 300 x 30	1	0.40	0.006
2	<b>19996</b>	283 x 216 x 40	6	1.30	0.018



### PVC Antiacid trays

Resistant to temperatures from -20 to +80°C. Ideal for photographic purposes thanks to their ribbed interior surface.

code	dimensions mm	quantity	weight	volume
<b>19280</b>	200 x 150 x 50	1	0.30	0.001
<b>19281</b>	250 x 200 x 60	1	0.40	0.003
<b>19282</b>	320 x 260 x 70	1	0.50	0.005
<b>19283</b>	350 x 300 x 85	1	0.60	0.009
<b>19284</b>	430 x 330 x 95	1	0.80	0.013
<b>19285</b>	520 x 420 x 95	1	0.90	0.020



### ABS trays

They withstand temperatures from -40 to +85°C.

code	dimensions mm	body weight g	quantity	weight	volume
<b>195701</b>	200 x 150 x 20	78	20	1.80	0.007
<b>195702</b>	300 x 150 x 20	115	20	2.50	0.008
<b>195703</b>	350 x 250 x 20	217	20	4.30	0.015
<b>195705</b>	200 x 150 x 40	91	20	2.00	0.009
<b>195706</b>	300 x 150 x 40	134	20	2.80	0.009
<b>195707</b>	350 x 250 x 40	254	20	3.80	0.018
<b>195709</b>	200 x 150 x 80	110	20	2.42	0.008
<b>195711</b>	350 x 250 x 80	299	20	3.50	0.033
<b>195713</b>	400 x 300 x 20	345	10	2.50	0.052



### Drying rack

PVC coated steel wire drying rack for general labware.

It embodies 55 pegs, and 5 brackets specially designed to hold erlenmeyer flasks and beakers. Pegs are plastic coated for better protection. Two rings on the rack allow the rack to be mounted on the wall.

It includes a tray in order to avoid drops on the surfaces where the rack is placed

code	dimensions mm	case quantity	case weight	case volume
<b>19212</b>	640 x 360 x 140	1	2.2	0.05





### Pipette and burette rinsing set

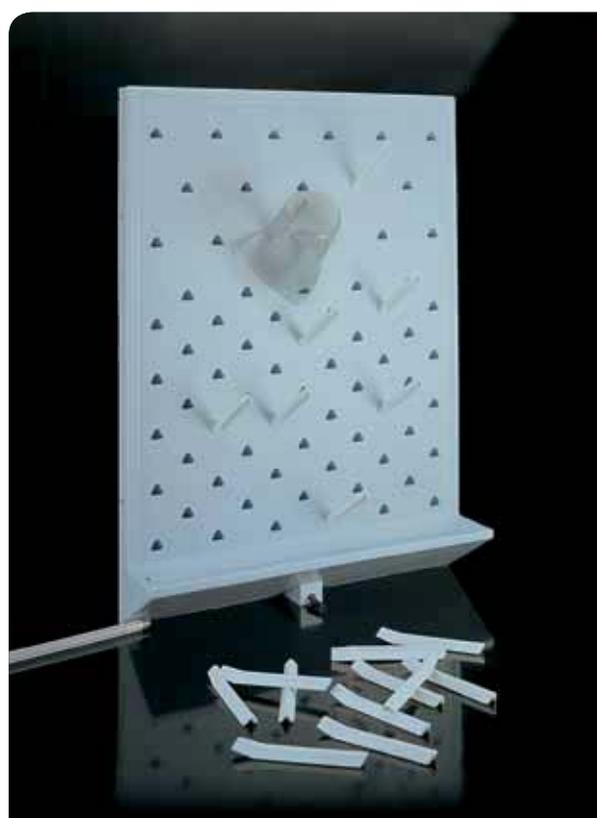
Made of polyethylene and polypropylene. Can hold pipettes and burettes of length up to 60 cm.

Ensures a fast, safe washing. Ideal for use in labs where caustic and toxic materials are used.

code	description	height mm	Ø mm	case quantity	case weight	case volume
19215	burette washer	750	165	1	3.50	0.110
19217	pipette washer	650	165	1	3.00	0.140
19218	pipette jar	650	165	1	1.80	0.048
19219	pipette basket	650	130	4	2.00	0.027
19221	pipette jar	500	165	1	1.50	0.049
19222	pipette basket	500	130	4	2.00	0.027
19223	pipette jar	250	125	4	2.00	0.031
191219	extension for 19219	650	130	2	1.00	0.043

Suggested sets:

- For pipettes: 1 x **19217**  
2 x **19219**  
1 x **19218**
- For shorter pipettes: 1 x **19217**  
2 x **19222**  
1 x **19221** or **19223**
- For burettes: 1 x **19215**  
2 x **19219**  
2 x **191219**  
1 x **19218**



### Drying rack

Wall mountable high impact polystyrene drying rack in light blue colour for general labware.

This rack consists of a single mould 4 mm plate with 72 peg sockets. Push-in pegs can be placed in any configuration on the rack, and are easily removable to accommodate odd shaped items. Peg sockets have closed ends to avoid dripping and eliminate the risk of biological contamination. Rack suitable for items with diameter of the mouth larger than 15 mm.

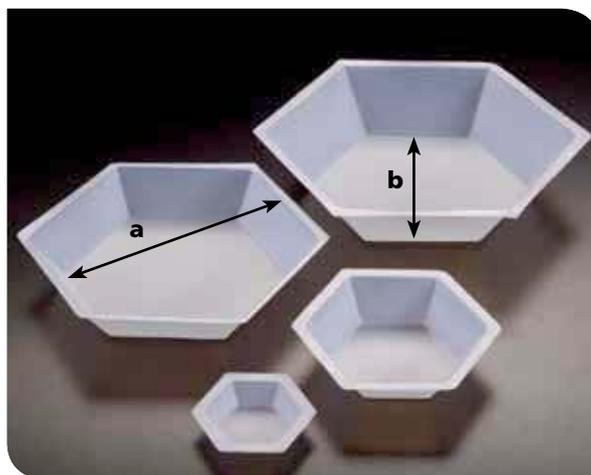
A **drip channel** collects dripping that drains via a drain tube provided. Includes 11 additional peg sockets (Ø 6 mm.) for smaller parts. Comes complete with a mounting kit and fixing template.

code	dimensions mm	case quantity	case weight	case volume
19213	450 x 630 x 110	1	5.00	0.050

### Hexagonal weighing dishes

Made of white translucent polystyrene. Easily bent into pouring spouts, the dishes enable non-spill transfer. Biologically inert, contaminant-free, they are resistant to diluted acids, aqueous solutions, alcohols and bases. **Antistatic**. Suitable for microwave. Will withstand temperatures from 80 to -10°C.

code	upper Ø (a) x lower Ø (b)	case quantity	case weight	case volume
1911106	35 x 25	500	0.28	0.001
1911107	64 x 47	500	0.90	0.004
1911108	110 x 85	500	1.85	0.007
1911109	130 x 89	500	2.80	0.014



### Squared weighing dishes

Made of white translucent polystyrene. Easily bent into pouring spouts, the dishes enable non-spill transfer. Biologically inert, contaminant-free, they are resistant to diluted acids, aqueous solutions, alcohols and bases. Not antistatic. Suitable for microwave. Will withstand temperatures from 80 to -10°C.

code	dimensions	weight (g)	bag quantity	bag weight	bag volume
1911103	41 x 41 x 8	0.34	500	0.17	0.02
1911104	89 x 89 x 25	1.07	500	0.54	0.04
1911105	140 x 140 x 22	3.27	500	1.63	0.07



### Weighing bottles

Light-weight, re-usable and **autoclavable**, made of translucent polypropylene. Push on lids ensure an airtight seal. High resistance to chemicals. Tops can be squeezed for more convenient pouring. It is recommended to remove lids before autoclaving.

code	tare (g)	capacity ml	Ø mm	height mm	bag quantity	bag weight	bag volume
19340	8	30	30	50	10	0.09	0.001
19345	10	50	50	30	10	0.14	0.002
19347	28	200	60	90	10	0.35	0.005



### Watch glasses

Made of autoclavable polypropylene. Moulded base for more stability. Easy **cleaning**.

code	weight (g)	Ø mm	case quantity	case weight	case volume
19452	3.7	60	10	0.50	0.002
19454	5.5	80	10	0.50	0.002
19455	10	100	10	0.70	0.002





### Reinforced silicone tubing. Non toxic.

Reinforced silicone tubing with a tough polyester inner-braid imbedded in the wall, it is much more resistant to pressure than standard silicone tubing.

Very flexible. Its clear wall permits positive flow monitoring and inspection.

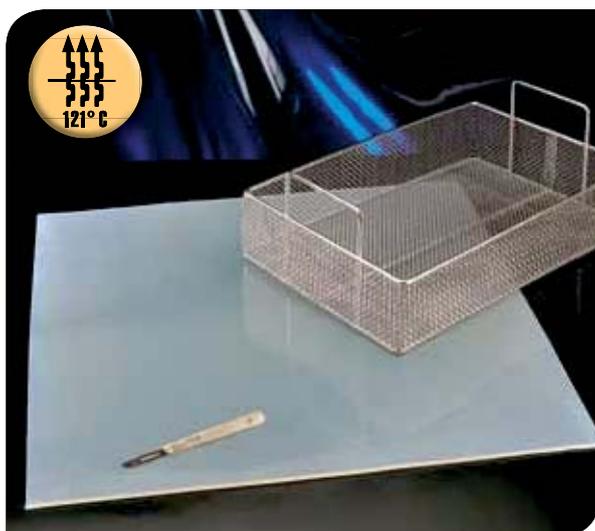
It has a smooth inner wall that will not trap bacteria-harboring particles, making it ideal for food and beverage use. Indicated for elevated working pressure.

It is not toxic.

Resist temperatures from -50°C to 200°C (beaks of 250 °C).

Minimum order quantity: one roll of 15 meters.

code	dimensions mm Ø int. x Ø ext.	bag weight	bag volume
<b>350613</b>	6 x 13	2.10	0.0057
<b>350815</b>	8 x 15	2.70	0.0010
<b>359517</b>	9.5 x 17	3.30	0.0071



### Silicone sheets

50 x 50 cm silicone sheets ideal as a laboratory benchtop protection or for use in autoclaves to protect any material.

For cleaning simply use a wet cloth.

Resistant up to 260 °C.

code	thickness mm	bag quantity	bag weight	bag volume
<b>350002</b>	2	1	0.60	0.0012
<b>350004</b>	4	1	1.20	0.0012



### Silicone mat

Made of red silicone, this mat will resist temperatures up to +260 °C. Features a high adherence and anti-skid surface.

For use over the benchtop or over laboratory stirrers to prevent beakers from slipping.

Dimensions: 25 x 25 x 0.4 cm.

code	description	bag quantity	bag weight	bag volume
<b>900000</b>	silicone mat	1	0.135	0.003

## Medical grade silicone tubing. Non toxic

Medical grade silicone. For use in a variety of medical, pharmaceutical, industrial and clinical applications. Translucent tubing. Very high mechanical and chemical resistance. Silicone tubing has a chemical composition similar to quartz and glass and share their excellent properties. **Autoclavable**.

### Technical features:

Specific gravity: 1.2 + 0.1

Toughness: 40 - 80 Sh

Resistance to traction: 77-95 Kg./cm<sup>2</sup>

Extension: 275-780%

Resistance to tearing: 20 - 50 Kg./cm

Temperature range: - 50° to +200 °C (beaks of 250°C)

code	dimensions mm Ø int. x Ø ext.	bag quantity (meters)	bag weight	bag volume
350051	0.5 x 1	1 x 100	0.07	0.005
350115	1 x 1.5	1 x 100	0.12	0.005
350013	1 x 3	1 x 15	0.12	0.003
350024	2 x 4	1 x 15	0.16	0.01
350034	3 x 4	1 x 15	0.13	0.01
350035	3 x 5	1 x 15	0.23	0.01
350037	3 x 7	1 x 15	0.38	0.01
350046	4 x 6	1 x 15	0.29	0.01
350048	4 x 8	1 x 15	0.67	0.01
350057	5 x 7	1 x 15	0.46	0.008
350059	5 x 9	1 x 15	0.78	0.01
350069	6 x 9	1 x 15	0.65	0.02
350610	6 x 10	1 x 15	0.9	0.008
350612	6 x 12	1 x 15	1.6	0.02
350079	7 x 9	1 x 15	0.45	0.02
350710	7 x 10	1 x 15	0.75	0.02
350810	8 x 10	1 x 15	0.82	0.02
350812	8 x 12	1 x 15	1.2	0.02
350814	8 x 14	1 x 15	1.9	0.02
350912	9 x 12	1 x 15	0.9	0.02
350915	9 x 15	1 x 15	2.1	0.02
351014	10 x 14	1 x 15	1.5	0.02
351420	14 x 20	1 x 15	2.9	0.03
351622	16 x 22	1 x 15	3.2	0.03
352030	20 x 30	1 x 15	7	0.03

**NOTE:** Tube thickness =  $\frac{\text{external } \varnothing - \text{internal } \varnothing}{2}$



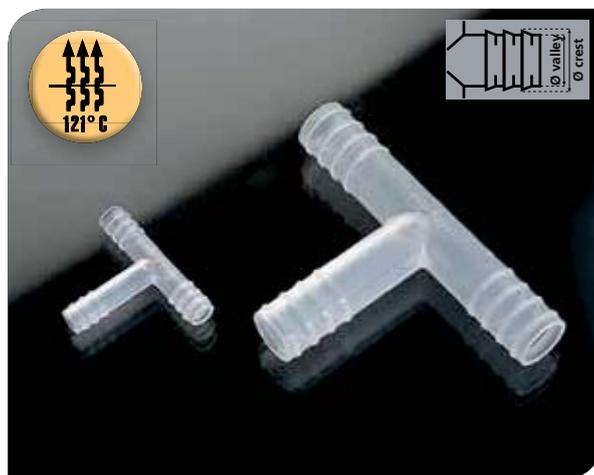
## Tubing clamps

Material: **autoclavable** acetate.

These clamps will not distort, rust or corrode. Different positions to control flow from full open to complete closure.

code	description	bag quantity	bag weight	bag volume
19505	for tubes of 3.2 to 11 mm (15 positions)	12	0.09	0.0009
19504	for tubes of 11 to 19 mm (12 positions)	6	0.12	0.0003



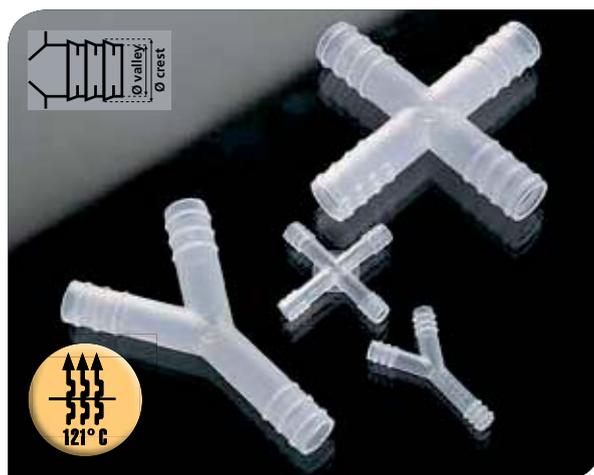


### «T» and «L» connectors

Material: polypropylene. **Autoclavable.**

code	fits tubing Ø mm	Ø mm* valley/crest	Ø mm interior mouth	shape	bag quantity	bag weight	bag volume
19459	4	3.3 / 3.6	1.6	T	20	0.01	0.001
19460	6	4.5 / 5.4	2.8	T	20	0.01	0.001
19461	8	6.9 / 7.6	4.4	T	20	0.03	0.001
19462	10	8.7 / 9.5	6.3	T	20	0.05	0.001

\* See the scheme



### «Y» and «+» connectors

Material: polypropylene. **Autoclavable.**

code	fits tubing Ø mm	Ø mm* valley/crest	Ø mm interior mouth	shape	bag quantity	bag weight	bag volume
191410	3.5	3.0 / 3.4	1.5	+	20	0.01	0.001
191411	6	4.8 / 5.6	2.7	+	20	0.02	0.001
191412	8	6.9 / 7.4	4.6	+	20	0.04	0.001
191414	12	10.4 / 11.5	8.0	+	20	0.09	0.001
191415	13.5	12.3 / 13.5	9.5	+	10	0.08	0.001
19465	6	4.7 / 5.7	2.7	Y	20	0.01	0.001
19467	10	8.9 / 9.9	5.5	Y	20	0.03	0.001
19468	12	10.5 / 11.6	7.3	Y	20	0.05	0.001

\* See the scheme



### «Straight» and 3 way connectors

Material: polypropylene. **Autoclavable.** Made of one piece.

code	fits tubing Ø mm	Ø mm* valley/crest	Ø mm interior mouth	shape	bag quantity	bag weight	bag volume
19510	4-5-6	3/4.5/5.5	2.0	straight line	20	0.02	0.001
19512	9-8-10	6.3/9/11	4.5	straight line	20	0.07	0.001
19513	10-11-12	8.3/10.5/13	6.5	straight line	20	0.08	0.001
19527	4-5-6	4.1/5.1	1.5	three branches	20	0.03	0.001
19530	10-11-12	9.9/11.5	5.5	three branches	20	0.13	0.001

\* See the scheme



### Laboratory holders

Ideal for holding tubing or thermometers onto the edge of beakers or other vessels. **Autoclavable.**

code	description	bag quantity	bag weight	bag volume
19971	for tubing of up to 9.5 mm Ø. Polycarbonate	6 x 6	0.14	0.001
19972	for thermometers from 3.2 mm to 11 mm Ø. Polypropylene	12 x 3	0.15	0.001

Minimum order quantity:

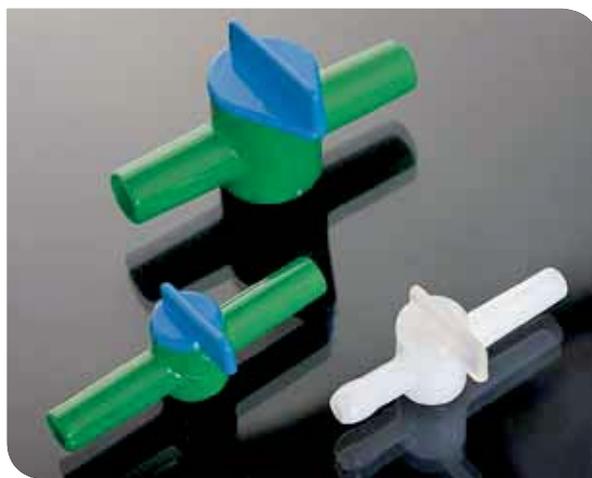
**19971** - 6 units

**19972** - 3 units

### Stopcock, straight bored

Ideal for liquids and gases under low pressure or low vacuum.  
Material: polypropylene and high density polyethylene that gives a smooth turning action requiring no lubricants.  
All are straight bored.

code	fits tubing Ø mm	Ø mm interior mouth	bag quantity	bag weight	bag volume
19374	8	4.9	10	0.05	0.001
19371	10	7.0	10	0.06	0.001
19376	14	10.9	10	0.15	0.001
19379	16	12.7	10	0.15	0.001



### Composed Disconnectors / connectors

Material: polyethylene. Very useful for connecting rubber or plastic tubing of different diameter. Composed by two parts. Connectors fit tightly together.

code	fits tubing Ø mm	Ø mm crest max/min	Ø mm interior mouth	bag quantity	bag weight	bag volume
19434	04-05-06	3.5 / 6.0	1.6	20	0.05	0.001
19435	06-07-08	5.3 / 7.6	2.7	20	0.06	0.001
19436	08-09-10	7.2 / 9.7	3.6	20	0.09	0.001
19535	10-11-12	9.3 / 12.2	5.5	20	0.11	0.001



### Non-return valve

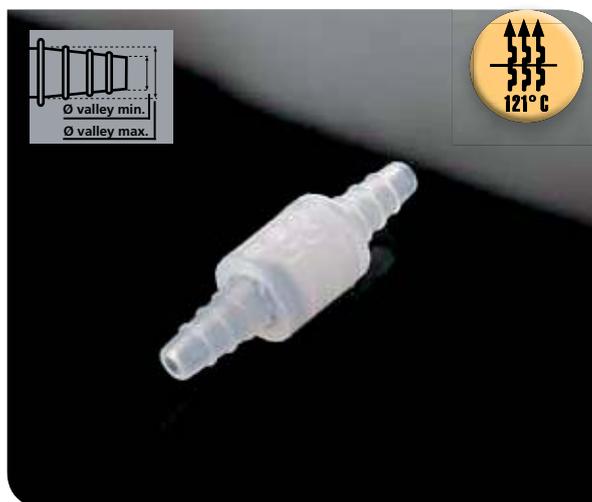
Material: polypropylene.

**Autoclavable.**

Maximum work pressure: 2 BAR (2 Kg/cm<sup>2</sup>).

Minimum work pressure: 0,07 BAR, at 20°C.

code	Ø ext valves	Ø mm valley max/min	bag quantity	bag weight	bag volume
19418	8-9-10	7.8 / 10.1	10	0.06	0.001



### Flow indicator (1)

Material: SAN. Perfectly transparent. The rotation of the red ball allows an immediate visual indication of glass or liquid flow. Very useful for connecting tubes of different diameter from 6.5 to 10 mm.

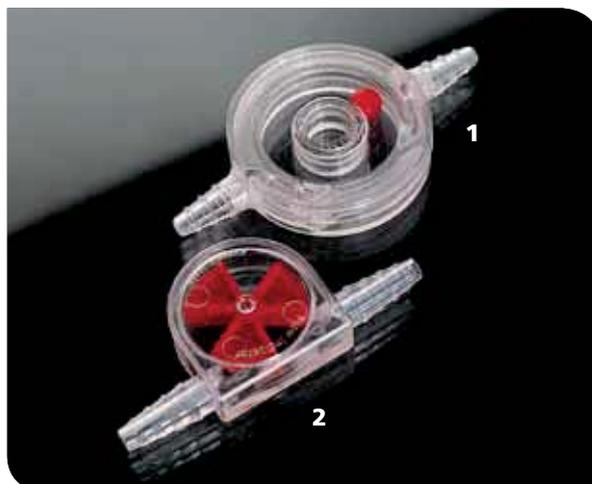
code	length mm	Ø mm	bag quantity	bag weight	bag volume
19538	102	57	5	0.07	0.001

### Flow indicator-paddle wheel (2)

Material: SAN.

Not for use with corrosive fluids or temperatures over 85°C.

code	dimensions mm	tubing mm	bag quantity	bag weight	bag volume
19539	8 x 17 x 40	6-11	5	0.10	0.001





### Wash bottles

Made a combination of high and low density polyethylene. Translucent bottle, with HDPE cap (blue), delivery tube and seal cap (natural).

Bottle caps are ribbed for a better handling.

High resistance to all liquids, acids and bases.

Include a large neck for safe and easy filling.

code	capac. ml	neck mm	base mm	height mm	case quantity	case weight	case volume
<b>44330000</b>	250	30	65	155	90	7.50	0.090
<b>44300000</b>	500	30	75	185	60	5.50	0.090
<b>44310000</b>	1,000	30	90	222	45	6.00	0.120



### Wide mouth wash bottles

Translucent polyethylene bottles, with screw cap and delivery tube available in 3 different colours (blue, yellow and red) for easy identification. Feature a one piece cap and delivery tube assembly, thus eliminating air or liquid absorption through the cap. Include a wide neck for safe and easy filling. Ribbed caps for a better handling while opening and closing. Moulded-in graduations. 250 ml model is graduated in 25 ml increments, 500 ml model, in 100 ml increments.

code	capac. ml	neck mm	base mm	height mm	case quantity	case weight	case volume
<b>191637</b>	250	40	60	140	10	0.80	0.014
<b>191638</b>	500	40	75	165	10	0.90	0.016

Please indicate required cap colour: (04) blue, (06) yellow, (10) red.



### Integral wash bottles

Made of translucent polyethylene. Feature a one piece cap and delivery tube assembly, which eliminates air or liquid absorption through the cap and ensures a positive leaktight seal. To increase liquid flow, cut the tip of the delivery tube; close the tip by means of the cap attached to the delivery tube. Caps are ribbed for a better handling while opening and closing.

Tagging points on neck and cap for a tamper proof closure. Bottles include a fill in line.

code	capac. ml	height mm	neck d/n std.	case quantity	case weight	case volume
<b>191633</b>	250	143	GL32	10	0.65	0.008
<b>191634</b>	500	181	GL32	10	0.80	0.015

## Special materials: TEFLON

This section details special products that are used in critical situations where glass is not suitable. TEFLON is a registered brand which refers to a type of polyethylene where hydrogen atoms have been replaced by fluorine ones, commonly called «fluocarbons».

The main characteristic of these chemical compounds is their high resistance to nearly all chemical components including nitric acid. Some variants of TEFLON are: FEP, PFA...

TEFLON main features:

Unbreakable, resistant to almost all temperatures, resistant to almost all chemical products, except fluorine and other alkaline metals during fusion.

Non flammable

These TEFLON products are highly recommended for those cases where extreme conditions of transport and storage are required.

### Low form graduated beakers

Material: PFA.

High chemical and temperature resistance (-250°C / +270°C).

code	capacity ml	div. ml	height ml	Ø mm	quantity	weight	volume
191537	250	50 / 1	96	67	1	0.05	0.001
191538	500	100 / 1	122	88	1	0.09	0.001



### Wash bottles high resistance

Material: FEP.

High chemical and temperature resistance (-250°C / +270°C).

code	capacity ml	height mm	Ø mm	quantity	weight	volume
191693	250	157	61	1	0.06	0.001
191694	500	189	76	1	0.09	0.001



### Beakers

Material: PTFE. No graduation.

High temperature and chemical resistance (-200 °C / +270 °C).

code	capac. ml	Ø body mm	height mm	quantity	weight	volume
19718	100	54	68	1	0.03	0.001





### Magnetic stirring bars

This section details our vast range of TEFLON magnetic stirring bars. A variety of different sizes and colours is available.

**Micro stirring bars:** for use in the smallest containers.

**Cylindrical stirring bars:** These are the most common and lend themselves to many general applications. The diameter of the bar chosen will depend on the diameter of the flask used although it is recommended to select the largest stirring bar possible to achieve optimum results.

**Octagonal stirring bars** with pivot ring: Ideal where the base of the container may be slightly curved or irregular.

**Triangular stirring bars:** These are used primarily to help dissolve solids or sediments. Also used for higher viscous liquids.

**Ovoid stirring bars:** Used in rounded bottom or Erlenmeyer flasks.

**Special shape stirring bars:** Cruciform stirring bars are used in round bottom tubes.



### Stirring bar retriever

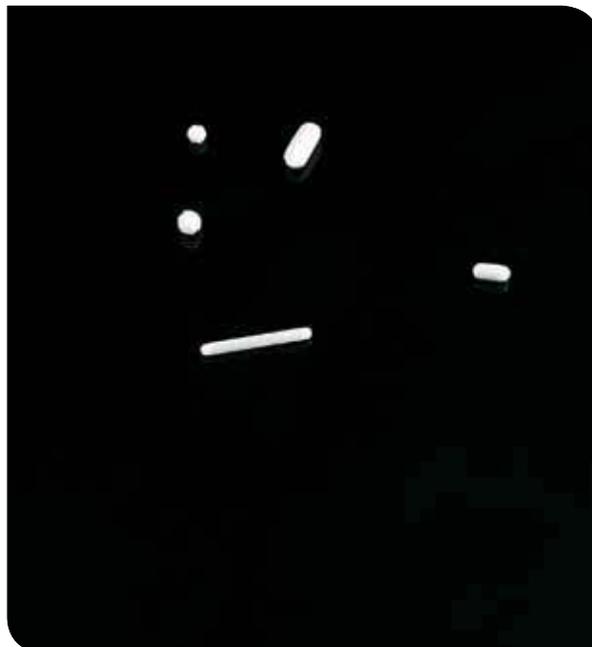
Polypropylene coated.

For the removal of stirrer magnets from vessels of all kinds. Includes a magnetic tip, so it is easy to remove the magnets.

code	diameter mm	length mm	bag quantity	bag weight	bag volume
19919	10	300	1	0.03	0.0001

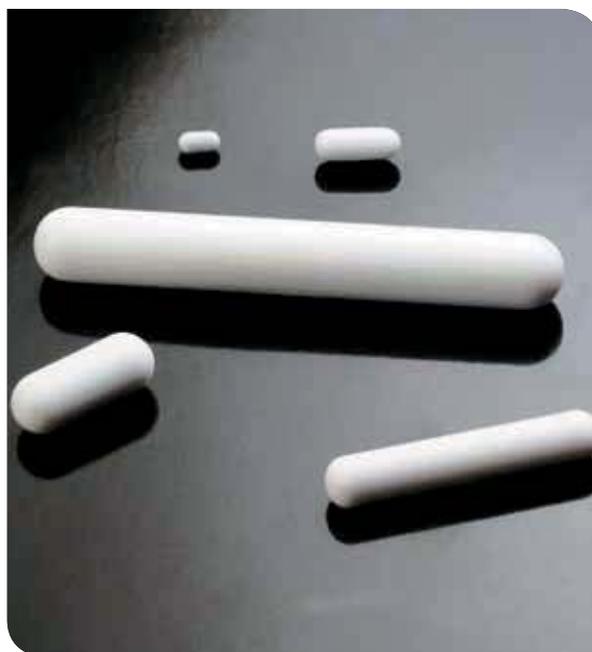
### Micro stirring bars

code	diameter mm	length mm	quantity	weight	volume
19850	2	2	1	0.04	0.0001
19851	3	3	1	0.04	0.0001
19852	2	5	1	0.04	0.0001
19853	3	6	1	0.04	0.0001
19749	2	7	1	0.04	0.0001
19854	1.5	8	1	0.04	0.0001
19855	3	8	1	0.04	0.0001
19856	3	10	1	0.04	0.0001
19857	3	13	1	0.04	0.0001



### Cylindrical stirring bars

code	Ø mm	length mm	quantity	weight	volume
19753	3	6	1	0.04	0.0001
19748	3	8	1	0.04	0.0001
19750	4.5	12	1	0.04	0.0001
19751	6	15	1	0.04	0.0001
19756	8	20	1	0.06	0.0001
19757	8	25	1	0.06	0.0001
19758	8	30	1	0.06	0.0001
19763	6	35	1	0.06	0.0001
19764	8	40	1	0.06	0.0001
19698	8	50	1	0.06	0.0001
19705	10	70	1	0.08	0.0001



### Triangular stirring bars

code	dimenions mm	quantity	weight	volume
19782	9 x 35	1	0.08	0.0001
19783	12 x 50	1	0.08	0.0001





### Octahedral stirring bars with pivot ring

code	diameter mm	length mm	quantity	weight	volume
19809	8	13	1	0.04	0.0001
19786	8	15	1	0.04	0.0001
19810	8	22	1	0.06	0.0001
19787	8	25	1	0.06	0.0001
19793	8	28	1	0.06	0.0001
19788	8	38	1	0.06	0.0001
19794	8	51	1	0.06	0.0001
19797	10	51	1	0.08	0.0001
19799	10	64	1	0.08	0.0001
19811	13	75	1	0.08	0.0001



### Colored octahedral stirring bars

code	colour	diameter mm	length mm	quantity	weight	volume
19810.4	blue	8	22	1	0.06	0.0001
19787.4	blue	8	25	1	0.06	0.0001
19788.4	blue	8	38	1	0.06	0.0001
19788.10	red	8	38	1	0.06	0.0001



### Ovoid stirring bars

code	dimensions mm	quantity	weight	volume
19806	50 x 20	1	0.004	0.0002



### Star-shaped stirring bars

code	diameter mm	length mm	quantity	weight	volume
19784	10	8	1	0.08	0.0001

### Cylindrical or octahedral stirring bar assortment pack

Assorted cylindrical or octahedral stirring bars supplied in a convenient transparent plastic box including dividers for magnet classification.

Box includes 2 units of the following stirring bars:

**Code 19400:** (diameter x length in mm): 8 x 13, 8 x 15, 10 x 25, 10 x 38, 10 x 51 and 10 x 64.

**Code 19400.1:** (diameter x length in mm) 6x10, 4,5x15, 6x20, 6x25, 6x30, 8x40, 8x50, 10x60, 10x70.

code	description	quantity	weight	volume
19400	box with 12 octahedrals stirring bars	1	0.25	0.0006
19400.1	box with 18 cylindrical stirrings bars	1	0.25	0.0006



### One-hand timer

60 Minute times model "Onehand" Non-slip surface. Can be rewound with one hand only.

code	description	Ø x h mm	quantity	weight	volume
19901	one-hand timer	72.5 x 29.5	1	0.21	0.0005



### Digital timers

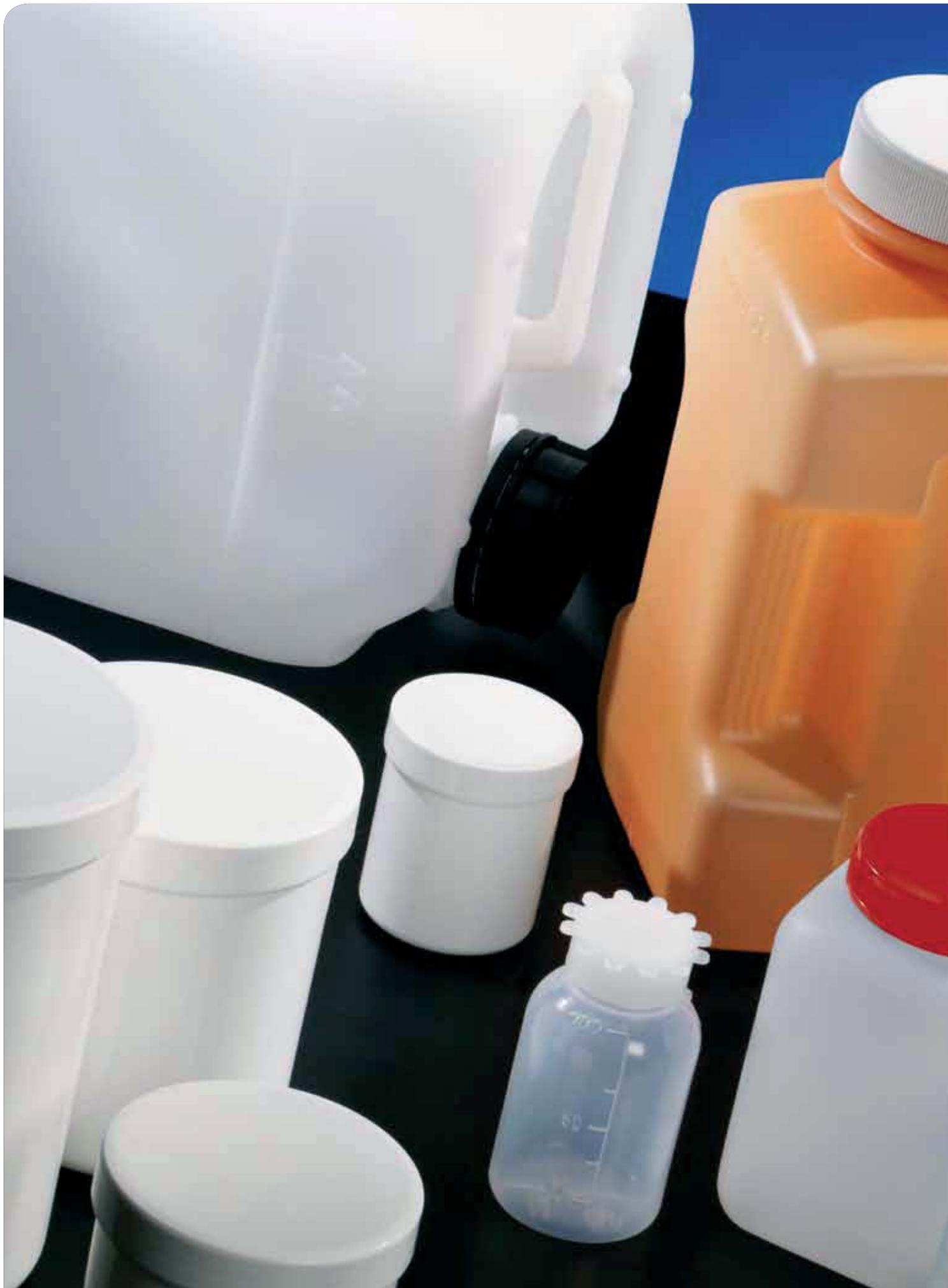
Digital timer with hours, days and months, 24 h. programme facility, 60 seconds, alarm, includes clip and small bench stand.

These digital timer count forward and down. Both include a LR44 battery.

Code 900400 includes instructions in English and German and code 900600 includes instructions in Spanish, English and French.

mod.	code	description	dimensions mm	quantity	weight	volume
1	900600	digital timer with 2 memories	64 x 61 x 14	1	0.11	0.0003
2	900400	digital timer with 1 memory	52 x 67 x 12	1	0.11	0.0003









### Polyethylene wide mouth jars with lid and insert plug

High density Polyethylene jars with screw cap and insert plug. Jars and plugs are natural translucent colour; lids are black. Supplied uncapped (except sterile models, supplied capped and bagged).

Upon request, jars can be supplied individually wrapped for a minimum order of 3 cases by model, and sterile for a minimum order of 6 cases by model.

Ask for minimum quantity and delivery time for caps and jars in other colours.

code	capacity ml	sterile, individual wrap	Ø internal mouth mm	Ø body mm	unitary weight g	height with lid mm	case quantity	case weight	case volume	pallet quantity
<b>202811</b>	30	—	25	32	4.2	53	100	1.00	0.011	14,700
<b>202810</b>	60	—	38	52	8.2	48	200	4.00	0.046	8,000
<b>202808</b>	90	—	51	60	8	51	150	3.80	0.046	4,800
<b>202809</b>	125	—	51	60	12	62	200	5.00	0.082	4,800
<b>202801</b>	170	—	51	60	14	80	160	4.70	0.082	3,200
<b>202802</b>	250	—	54	67	20	100	125	4.70	0.082	3,000
<b>New 202802.1</b>	250	yes	54	67	20	100	125	5.50	0.078	3,000
<b>202814</b>	400	—	60	74	27.3	124	130	9.00	0.140	2,080
<b>New 202814.1</b>	400	yes	60	74	27.3	124	130	8.00	0.140	2,080
<b>202803</b>	500	—	67	80	35	131	120	8.40	0.140	1,920
<b>New 202823.1</b>	500	yes	67	80	35	131	120	8.10	0.140	1,920
<b>202821</b>	500	—	86	103	44.9	93	95	9.00	0.140	1,520
<b>New 202821.0</b>	500	yes	86	103	44.9	93	95	9.20	0.140	1,520



code	capacity ml	sterile, individual wrap	Ø internal mouth mm	Ø body mm	unitary weight g	height with lid mm	case quantity	case weight	case volume	pallet quantity
<b>202813</b>	750	—	86	103	48	127	75	7.70	0.140	1,200
<b>202813.10</b>	750	yes	86	103	48	127	75	7.40	0.140	1,200 <i>New</i>
<b>202818</b>	1,000	—	86	103	56.7	157	50	5.80	0.140	800
<b>202828G</b>	1,000	yes	86	103	56.7	157	50	7.00	0.140	800 <i>New</i>
<b>202804</b>	1,250	—	86	103	56.7	173	50	6.10	0.140	800
<b>202815</b>	1,550	—	86	113	64.6	181	45	6.00	0.140	720
<b>202815B.O</b>	1,550	yes	86	113	64.6	181	45	6.00	0.140	720 <i>New</i>
<b>202820</b>	2,000	—	86	103	83.1	283	35	5.80	0.140	560
<b>202820.O</b>	2,000	yes	86	103	83.1	283	35	6.10	0.140	560 <i>New</i>
<b>202839*</b>	2,000	—	105	128	73	205	32	4.00	0.140	512

\* Supplied capped.



### Polyethylene beakers

Volumes available range from 60 ml to 1,000 ml.

All models come without lid, except the 1,000 ml beaker, which is available with or without lid.

For use with liquid and solid samples.

Manufactured in a flexible material for easy pouring.

code	volume ml	body Ø mm	mouth Ø mm	height mm	weight body g	case quantity	case weight	case volume
<b>242801</b>	60	40	50	48	5.0	1,100	6.50	0.036
<b>242802</b>	100	40	55	58	6.5	1,000	7.20	0.026
<b>242803</b>	230	55	70	78	15.0	700	12.00	0.046
<b>242804</b>	275	53	72	98	22.7	500	11.42	0.047
<b>242805</b>	500	70	90	108	38.7	200	8.50	0.036
<b>242806</b>	1,000	90	120	132	63.2	120	8.40	0.036
<b>242811*</b>	1,000	90	120	132	65.0	65	6.30	0.036

\* With lid. Beaker and lid are supplied in the same bag.



### Disposable cups

Disposable sample cups, for general sample collection. Cups are supplied stacked.

code	volume ml	material	case quantity	case weight	case volume
<b>202248</b>	100	PP	84 x 50	11.34	0.100
<b>202317</b>	150	PS	30 x 100	12.00	0.088



### Self sealing security jars

Excellently finished, body and lid in **autoclavable** polypropylene. Screw cap with strips. Security sealing with tag for easy opening. Tamper evident system. External moulded ring. Smooth internal side.

Each jar specifies on its bottom its capacity, and the material it is made of. Supplied uncapped.

code	volume ml	body Ø mm	lid external Ø mm	height mm	weight ut. g	case quantity	case weight	case volume	pallet quantity
202911	100	54.1	61.5	53	11	150	3.95	0.045	6,000
202912	250	71.2	76.6	74	25	115	4.80	0.082	2,880
202913	350	70.5	76.6	101.5	30	80	4.28	0.082	2,080
202914	500	90.5	100.0	92.1	45	120	7.27	0.140	1,920
202915	1,000	105.3	116.2	130.2	80	60	7.13	0.140	960
202916	1,250	105.0	116.2	162.5	90	48	6.55	0.140	768



### Polypropylene jars

Excellently finished jars, ideal for cosmetic, pharmacy,... Smooth body and lid, manufactured in **autoclavable** white polypropylene. **Screw closure**. It is perfect for pomades thanks to its totally smooth interior side. External molded ring.

Each jar specifies on its bottom its capacity, and the material it is made of. Supplied uncapped.

code	volume ml	body Ø mm	lid external Ø mm	height mm	weight ut. g	case quantity	case weight	case volume	pallet quantity
202930	125	53	56	67	10	170	4.15	0.045	6,800
202931	310	76	81	81	30	100	4.60	0.082	2,400
202932	375	76	81	97	35	85	4.47	0.082	2,040
202933	625	90	96	114	60	110	7.27	0.140	1,760
202934	1,250	106	113	159	100	48	6.30	0.140	768



### Leaktight buckets with lid

Disposable containers made of polypropylene **autoclavable**. Include tight fitting and leakproof lids. All models, except the 1 l bucket, include a sturdy and convenient white plastic handle for easier carrying. Buckets are supplied with lid apart. Suitable for alimentary use.

code	capacity ml	Ø ext. lid mm	Ø int. mouth mm	height mm	*body weight g	case quantity	case weight	case volume
222802	2.50	200.00	184.00	138	105.00	80	9.00	0.14
222803	4.40	225.00	210.00	156.00	134.00	48	10.40	0.13
222804	5.60	225.00	210.00	194.00	152.00	45	11.60	0.13
222805	10.70	268.00	253.00	263.00	314.00	20	10.50	0.13

\* Weight with no lid and handle.



### Jars with lid

Body and lid in white **autoclavable** polypropylene.

Self sealing security lid.

1.560 ml jar embodies a plastic handle.

Jars are supplied uncapped.

Cases per pallet: 24, excepting code 241010, palletised in 40 cases.

Suitable for alimentary use.

code	capacity ml	Ø int. mouth x height mm	Ø base mm	weight g	case quantity	case weight	case volume
241010	250	84.5 x 79.5 x 62		18	150	3.00	0.046
241011	550	107 x 98 x 80		32	250	5.00	0.082
241012	825	111.5 x 112 x 101.5		38	180	3.20	0.082
241013	1,000	112.5 x 112 x 137.5		46	150	4.20	0.082
241014	1,560	133.5 x 134 x 140		58	150	4.40	0.082



### Buckets with spout

Natural high density polyethylene buckets with a stainless metal handle. Include a spout for easier pouring. Moulded-in graduations. Very sturdy construction.

These buckets may be printed with your name and logo.

code	capacity l	dimensions mm	quantity	weight	volume
19905	9	270 x 200 x 250	1	0.50	0.009
19906	12	300 x 220 x 280	1	0.70	0.013
19907	15	340 x 250 x 310	1	1.00	0.019

The specified data may vary when changing to new models.

### Industrial jugs

Made of thick rigid polyethylene. Natural colour. Recommended for industrial use.

code	capacity l	mouth Ø mm	height mm	weight ut. g	case quantity	case weight	case volume
470006	3	150	180	215	6	1.43	0.026
470007	5	190	240	400	6	2.21	0.028



### Round jugs with handle

Polypropylene. **Autoclavable** to 121 °C.

code	capacity l	graduation ml	Ø mm	height mm	case quantity	case weight	case volume
470000	0.5	25	80	120	60	4.40	0.050
470001	1	50	125	140	48	4.60	0.080
470002	2	50	155	180	36	6.40	0.110
470003	3	100	165	180	27	7.28	0.130
470005	5	250	185	230	12	5.00	0.109

Minimum order quantity: 1.





### Square containers with star-shaped caps

Colour: translucent white.

Containers and insert plugs made of high density polyethylene. Star-shaped screw caps made of polypropylene.

Tagging points on neck and cap for a tamper proof closure or for labeling.

All models have moulded-in graduations.

Containers are supplied plugged and capped. Not recommended for liquids transport.

code	capacity ml	graduation each ml	dimensions mm	neck Ø mm	body weight g	case quantity	case weight	case volume	pallet quantity
444608	25	12.5	32 x 34 x 52	18	6	500	6.60	0.140	10,500
444609	50	10	38 x 38 x 70	23	15	400	7.50	0.140	9,600
444610	100	20	42 x 48 x 90	33	22	600	17.20	0.184	9,600
444611	250	50	57 x 60 x 110	33	32	300	13.80	0.184	4,800
444612	500	100	70 x 80 x 138	44	55	150	11.50	0.184	2,400
444613	1,000	100	80 x 103 x 176	58	97	80	14.00	0.190	1,280
444614	2,000	100	100 x 134 x 210	58	177	40	12.70	0.190	640



See more information in Chapter 8.  
Sample Containers.





### Wide neck containers with star-shaped cap

Made of high density polyethylene. Natural colour.

Cylindrical container featuring a star-shaped screw cap.

Tagging points on neck and cap for a tamper proof closure, or for labeling.

Containers are supplied non capped.

code	volume ml	internal mouth Ø mm	body Ø mm	height without lid mm	body weight g	case quantity	case weight	case volume	pallet quantity
44420000	60	23.2	42	80.5	13	200	3.40	0.048	8,000
44430000	125	29.5	52	103.5	18	100	3.80	0.048	4,000
44440000	250	37	65	128	24	120	5.60	0.087	2,880
44450000	500	47.4	82	152	40	60	5.30	0.087	1,440
44460000	1,000	59.4	102	183.2	90	55	8.00	0.140	880
44470000	2,000	59.4	123.5	244.5	128	30	6.00	0.140	480



### Wide neck graduated containers with star-shaped cap

Colour: translucent white.

Bottles and insert plugs made of high density polyethylene.

Star-shaped screw caps made of polypropylene.

Tagging points on neck and cap for a tamper proof closure.

Sloping shoulders for easy pouring.

Bottles are supplied plugged and capped.



code	volume ml	graduation ml	internal mouth Ø mm	body Ø mm	height mm	body weight g	case quantity	case weight	case volume	pallet quantity
19408	50	10	24	40	75	13.20	100	1.87	0.022	9,600
19409	100	20	24	50	90	18.30	100	2.37	0.031	4,900
19410	250	25	34	60	125	35.80	50	2.16	0.037	3,600
19411	500	50	34	75	160	50.70	20	1.20	0.024	1,120
19412	1,000	100	45	95	200	92.20	20	2.60	0.024	960



### Bottles with standard, narrow neck

Bottles made of **autoclavable**, natural colour polypropylene. Hermetical closure.

Suitable for food use. Easy opening and closing caps thanks to its size. Grippled, in order to ease its usage with gloves. Cap and body with holes for sealing or labeling.

Neck and cap with vents.

Graduation: 100 ml model, every 20 ml; 250 ml, every 25 ml; 500 ml and 1,000 ml, every 100 ml.

code	neck DIN	volume ml	body Ø mm	height mm	body weight g	case quantity	case weight	case volume
<b>191597</b>	GL18	100	48	106	18.5	100	1.90	0.040
<b>191599</b>	GL25	250	60	148	33.1	5 x 50	10.00	0.190
<b>191601</b>	GL25	500	75	180	49.3	150	9.00	0.190
<b>191603</b>	GL32	1,000	95	222	100.9	80	8.80	0.190



### Bottles with standard, wide neck

Wide neck bottles made of **autoclavable** polypropylene, or polyethylene (not autoclavable).

Body and caps in natural colour. Hermetical closure.

Suitable for food use. Easy opening and closing caps thanks to its size. Grippled, in order to ease its usage with gloves.

Neck and cap with vents. Graduation: 100 ml model, every 20 ml; 250 ml, every 25 ml; 500 ml, 1,000 ml, and 2,000 ml, every 100 ml.

#### MADE OF POLYETHYLENE, NOT AUTOCLAVABLE:

code	neck DIN	volume ml	body Ø mm	height mm	body weight g	case quantity	case weight	case volume
<b>191610</b>	GL32	100	48	103	25.7	100	2.84	0.031
<b>191612</b>	GL45	250	60	140	39.2	5 x 50	10.30	0.190
<b>191614</b>	GL45	500	75	168	55.9	5 x 25	9.30	0.190
<b>191616</b>	GL63	1,000	95	206	109.3	68	9.30	0.190
<b>191618</b>	GL63	2,000	120	249	145.2	30	6.30	0.190



#### MADE OF POLYPROPYLENE, AUTOCLAVABLE:

code	neck DIN	volume ml	body Ø mm	height mm	body weight g	case quantity	case weight	case volume
<b>191623</b>	GL32	100	48	103	26.6	100	2.80	0.040
<b>191625</b>	GL45	250	60	140	40.8	250	10.60	0.190
<b>191627</b>	GL45	500	75	168	56.5	125	8.00	0.190
<b>191629</b>	GL63	1,000	95	206	100.2	68	8.84	0.190
<b>191631</b>	GL63	2,000	120	249	175.5	30	6.30	0.190

### Graduated narrow neck bottles

Made of translucent polyethylene.

Designed for the storage of acids and bases. Include a ribbed screw cap for a better handling, and an insert plug.

Feature sloping shoulders for easy pouring.

Tagging points on neck and cap for a tamper proof closure and for labeling.

Bottles have the following moulded-in graduations: code **19317**, every 10 ml; **19319**, every 20 ml; **19323**, every 25 ml, **19324**, every 50 ml, **19325** and **19326**, every 100 ml.

Supplied capped.

code	volume ml	neck Ø mm	bottom Ø mm	height mm	case quantity	case weight	case volume
<b>19317</b>	50	18	40	75	4 x 100	6.7	0.073
<b>19319</b>	125	18	50	110	6 x 100	15.5	0.151
<b>19323</b>	250	22	60	145	6 x 50	12.8	0.151
<b>19324</b>	500	22	75	175	6 x 25	9	0.195
<b>19325</b>	1,000	33	95	220	4 x 20	9	0.184
<b>19326</b>	2,000	33	120	270	2 x 20	8.4	0.151

Minimum order quantity: 1 bag.

### Graduated narrow neck opaque bottles

Opaque cylindrical bottles made of dark grey polyethylene, designed for the storage of light sensitive liquids or solid substances. Include a black screw cap and an insert plug for a positive leakproof seal.

Ribbed caps for a better handling.

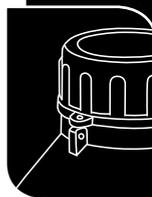
Heavy duty bottles, with sloping shoulders for easy pouring.

Tagging points on neck and cap for a tamper proof closure. Body and cap with holes for sealing or labeling.

Supplied capped.

code	volume ml	neck Ø mm	bottom Ø mm	height mm	case quantity	case weight	case volume
<b>193241</b>	500	22	75	175	6 x 25	9	0.195
<b>193251</b>	1,000	33	95	220	4 x 20	5	0.198

Minimum order quantity: 1 bag.



See page 278



### Narrow neck, high resistance bottles

Bottles made of translucent, white, high density polyethylene, designed for the storage of acids and bases.

Blue screw cap on a combination of high and low density polyethylene. Screw caps are ribbed for a better handling.

Sloping shoulders for easy pouring. Heavy duty bottles.

Supplied uncapped.

code	volume ml	neck Ø mm	bottom Ø mm	height mm	case quantity	case weight	case volume
<b>44260000</b>	250	30	65	155	90	7.50	0.087
<b>44270000</b>	500	30	75	185	70	6.50	0.087
<b>44280000</b>	1,000	30	90	222	50	6.70	0.120





### Polyethylene bottles

Translucent cylindrical bottles made of high density polyethylene with PP screw cap and LDPE insert plug, designed for the storage of alcohol.

Caps are ribbed for a better handling while working with gloves. Insert plugs are dispensed pierced.

No graduation. Supplied uncapped.

code	capac. ml	int. neck Ø mm	bottom Ø mm	height mm	body weight g	case quantity	case weight	case volume	pallet quantity
<b>292300</b>	75	24.6	39.4	97.6	8	220	2.80	0.042	6,160
<b>292303</b>	125	24.6	45	106	10	140	2.60	0.043	5,600
<b>292304</b>	250	24.6	58	128	18	80	2.55	0.044	3,200
<b>292305</b>	500	24.6	73	160	31	100	4.90	0.110	1,200
<b>292306</b>	1,000	24.6	82	230	46	60	5.00	0.110	720



### Tamper evident bottles, tall models

Translucent cylindrical bottles made of natural colour low density polyethylene, with blue tamper evident closures.

Caps are ribbed for a better handling while working with gloves.

Bottles specially designed with tamper evident rings to ensure a positive seal.

Bottles are supplied uncapped.

To fully seal them, screw cap in a normal way and then screw again to fully position the tamper evident ring. To open, unscrew cap.

The ring, automatically broken, will remain on the neck of the bottle.

code	capac. ml	body Ø mm	neck Ø mm	height mm	body weight g	case quantity	case weight	case volume	pallet quantity
<b>282303</b>	125	48	37	105	16.2	125	2.45	0.045	5,000
<b>282304</b>	250	59	37	129	21.9	75	3.20	0.045	3,000
<b>282305</b>	500	66	37	200	35.0	100	5.00	0.110	1,600
<b>282306</b>	1,000	87	37	230	52.0	60	4.10	0.110	720



### Screw cap containers with seal and dropper

Made of white polypropylene.

White watertight screw closing system with dropper-plug and blue security seal. Hermetical closure. Mouth diameter: 10.2 mm.

Case volume: 0.114 m<sup>3</sup>.

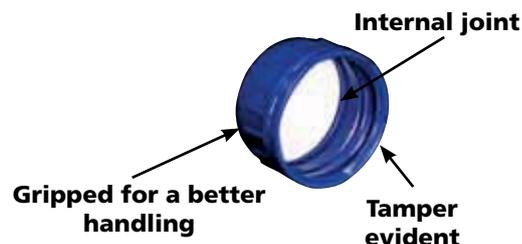
Supplied uncapped.

code	volume ml	Ø base mm	height mm	body weight g	case quantity	case weight	case volume
<b>53020</b>	20	24.6	65	3.50	2,000	12.70	32,000
<b>53125</b>	125	42.2	134.7	15.50	275	6.25	4,400
<b>53250</b>	250	50.8	167.3	21.50	200	5.95	3,200
<b>53500</b>	500	68.3	196.5	41.00	100	5.50	1,600



### Rectangular bottles

Body and cap made of polyethylene.  
 Bottles with blue screw caps, including seal ring and internal joint.  
 Tamper evident system.  
 Body in natural colour, graduated (moulded):  
 250 ml model, graduated each 50 ml.  
 500 and 1,000 ml models, graduated each 100 ml.  
 Supplied uncapped.



code	volume ml	internal mouth Ø mm	dimensions (A x B x C) mm	weight g	case quantity	case weight	case volume	pallet quantity
292819G	250	30.3	58 x 58 x 115	21	210	6.0	0.096	3,360
292820G	500	30.3	77 x 77 x 130	35	153	9.7	0.140	2,448
292821G	1,000	30.3	96 x 75 x 184	62	90	6.4	0.140	1,440

### Nozzle bottles

Cylindrical bottles with screw caps, made of high density polyethylene, with a narrow nozzle design. Natural colour.  
 Cut the nozzle tip with scissors before liquid dispensing.  
 No graduation.  
 Bottles and caps are supplied in separated bags.

code	volume ml	neck Ø mm	bottom Ø mm	height mm	case quantity	case weight	case volume
272301	50	20	35	75	160	2.10	0.026
272303	125	20	48	100	135	2.65	0.049
272304	250	20	59	143	75	2.55	0.049





### Squared bottles

Bottles with screw cap and insert plug, made of polyethylene. Bottles and insert plugs are white (translucent), caps are red. Ribbed caps for a better handling when using gloves. Supplied capped.

code	volume ml	mouth Ø mm	dimensions mm	weight g	case quantity	case weight	case volume	pallet quantity
<b>292818</b>	150	37	50.5 x 50.5 x 88	15	300	6.9	0.096	4,800
<b>292819</b>	250	37	58 x 58 x 103	21	210	6.0	0.096	3,360
<b>292820</b>	500	50.5	77 x 77 x 116	35	165	9.7	0.140	2,640
<b>292821</b>	1,000	50.5	96 x 75 x 172	62	90	6.4	0.140	1,440



See sterile models on Chapter 1. Microbiology.

### Polyethylene bottles

Rectangular body and cap made of polyethylene. The smaller sides are gripped for a better handling. The bigger sides are flat for labelling. Self-sealing blue cap with internal security ring. Hermetical closure. Tamper evident system. Supplied uncapped.

code	volume ml	dimensions mm	int. mouth Ø mm	body weight g	case quantity	case weight	case volume	pallet quantity
<b>282310</b>	500	83 x 65 x 135	28	40	123	5.55	0.11	2,460
<b>282311</b>	1,000	83 x 65 x 235	28	61	73	4.93	0.11	1,460

## SPECIAL MATERIAL: PET

**Polyethylene Terephthalate PET**

PET is a thermoplastic polymer resin of the polyester family that is used in synthetic fibers. Its monomer can be synthesised by the esterification reaction between terephthalic acid and ethylene glycol with water as a byproduct; or the transesterification reaction between ethylene glycol and dimethyl terephthalate with metanol as a byproduct. Polymeration is through a polycondensation reaction of the monomers with ethylene glycol as the by product.

Its chemical formula is:  $[-CO-C_6H_4-CO-O-CH_2-CH_2-O-]$ .

The PET resin used in packaging industry is obtained through ethylene and paraxylene, both derived from petrol. The SPI system identifies PET packaging with the number one or the acronym PETE (surrounded by the three arrows symbol) on the base of the bottles. PET has a low vitreous transition temperature (when an amorphous polymer gets soft), so it is recommended to maintain PET products under 40°C (50°C maximum).

**Characteristics and properties:**

- Working temperature from -40 to +115°C
- Very lightweight
- High degree of transparency and brilliance
- High degree of resistance to attrition
- Low scratch-resistance
- Very good glide coefficient
- Excellent mechanical resistance to compression and falls
- It keeps constant the flavour and the aroma of food
- Good barrier versus gases (for example, CO<sub>2</sub>)
- Good general resistance to oils and fats in food; diluted solutions of mineral acids, alkalis, salts, soaps, aliphatic hydrocarbons and alcohols
- Low resistance to halogenated solvents, aromatics and low molecular weight ketones
- Can be sterilised by radiation or ethylene oxide
- 100% recyclable.

**Wide mouth, squared jars**

Wide mouth transparent jar made of PET, manufactured in a clean room (Class FDA 1,000 - ISO 6) with white ribbed cap made of polypropylene with internal joint.

Specially designed for an easy handling with just one hand.

Caps and joints are supplied non assembled in a separated case.

Suitable for alimentary use.

Internal mouth diameter mm: 55.

code	nominal volume ml	total volume ml	dimensions mm	body weight gr	levels per pallet	jars per level	bags per level	jars per bag	jars per pallet	jars pallet weight	jars volume pallet	cap & joint case weight	cap & joint case volume
<b>299500</b>	500	510	75 x 75 x 122	44	8	208	2	104	1,664	88	1.44	15.0	0.15
<b>2991000</b>	1,000	1,080	85.5 x 85.5 x 190	69	10	154	2	77	1,540	126	2.40	13.9	0.14
<b>2991500</b>	1,500	1,575	99 x 99 x 210	72	10	240	2	117	1,200	106	2.64	10.8	0.11

Minimum order quantity: 1 pallet.





### PET Packer

Inviolable cap flat top

Caps and joints are supplied non assembled in a separated case.

Suitable for alimentary use. Not suitable to transport liquids.

code	nominal volume ml	total volume ml	body Ø mm	height mm	body weight gr	case quantity	flasks case weight	flasks case volume	flasks case pallet	cap and joint case weight	cap and joint case volume
<b>295100</b>	100	117	47	86.5	22	450	11.1	0.108	16	2.0	0.01
<b>295150</b>	150	170	50	104	22	300	7.8	0.108	16	1.4	0.01
<b>295200</b>	200	203	58.5	109	31	225	8.2	0.108	16	1.0	0.01

Minimum order quantity: 1 case.



All volumes can be manufactured in color:

mod.	body	cap
<b>1</b>	amber	gold
<b>2</b>	green	gold
<b>3</b>	blue	blue
<b>4</b>	white	white
<b>5</b>	black	black
<b>6</b>	red	gold

Minimum order quantity: 2 pallets per color.



### Syrup bottles

Bottles made of transparent PET. Tamper evident, ribbed cap made of white high density polyethylene; DIN 28.

Cap with internal joint.

Suitable for alimentary use.

Internal mouth diameter mm: 21.5

Bottles and caps supplied separately inside the same box.

They can also be supplied in amber and opaque white colour (please ask for minimum order quantity).

Supplied uncapped.

code	nominal volume ml	total volume ml	Ø body mm	height mm	body weight gr	case quantity	case weight	case volume
<b>288060</b>	60	64	38	96	12	480	8.77	0.183
<b>288100</b>	100	108	44.2	106	16	350	7.25	0.183
<b>288150</b>	150	162	49	126	18	440	10.80	0.183
<b>288200</b>	200	216	52	145	24	360	11.27	0.183
<b>288250</b>	250	270	58	147.70	24	280	9.10	0.183
<b>288500</b>	500	530	75.5	161	34	225	9.97	0.247
<b>2881000</b>	1,000	1,030	88.60	219.50	47	72	5.23	0.247





### Medicine bottles

Bottles made of transparent PET, manufactured in a clean room (Class FDA 1,000 - ISO 6).

Tamper evident, ribbed cap made of white high density polyethylene; DIN 28.

Caps are supplied in a separated case.

Suitable for alimentary use. Internal mouth diameter mm: 21.5

#### SUPPLIED IN PALLET:

code	nominal volume ml	total volume ml	body Ø mm	height mm	body weight gr	levels per pallet	bottles per level	bags per level	bottles per bag	bottles per pallet	aprox. pallet weight	pallet volume	cap case weight	cap case volume
297500	500	540	78.5	153	34	7	154	2	77	1,078	57	1.15	4.9	0.03
2971000	1,000	1,040	88.5	216	49	5	120	2	60	600	50	1.15	2.7	0.02

Minimum order quantity: 1 pallet.



### Bottle with screen and childproof cap

Bottle with screen and childproof cap.

Made of white colour high density polyethylene.

It embodies a **graduated screen** (up to 900 ml) which allows the user to see the content.

**Childproof**, tamper evident, ribbed screw cap with insert plug (see how to use a childproof cap in page 168).

Suitable for alimentary use.

Bottles are supplied non screwed.

code	volume ml	total volume ml	Ø x height mm	body weight g	case quantity	case weight	case volume	pallet quantity
202502	1,000	1,120	87.5x226.5	65	74	5.4	0.14	1,184



### Drums with screen and childproof cap

Made of white colour high density polyethylene.

They embody a handle and a graduated screen which allows the user **to see the content**.

**Childproof, tamper evident**, ribbed screw **cap** with insert plug (see how to use a childproof cap in page 168).

Suitable for alimentary use.

Drums are supplied non screwed.

code	capacity ml	total capacity mm	Ø internal mouth mm	dimensions mm	body weight g	case quantity	case weight	case volume	pallet quantity
202501	1,000	1,100	21.4	61 x 132.7 x 194.5	58	85	6.8	0.14	1,360
202505	5,000	5,260	34.5	133.8 x 192.5 x 391	170	16	3.25	0.14	256

### Cylinder with handle

Made of polypropylene.

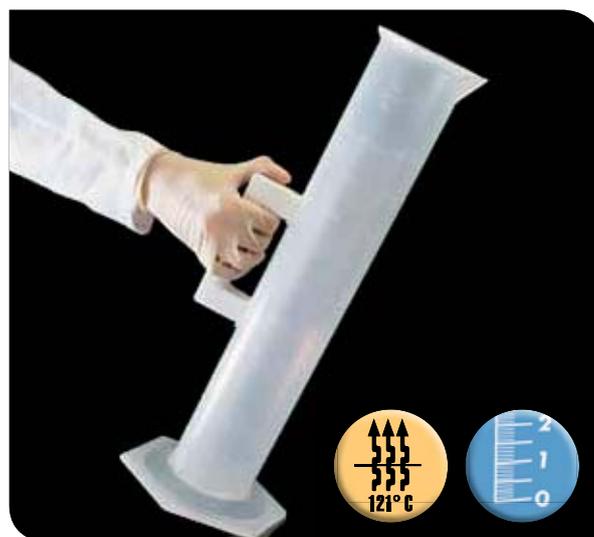
The handle provides a secure, solid grip for superior control, specially when handling large volumes.

Pouring is safer and more convenient, as the cylinder is specially designed to ensure a total liquid delivering. 89 x 29 mm hand opening for easy handling.

Hexagonal base to prevent tipping and rolling.

Accurate and easy to read graduated double scale on the cylinder.

**Autoclavable** at 121°C.



code	volume l	graduation ml	height mm	bottom Ø mm	Ø cylinder int. mm	Ø cylinder ext. mm	quantity	weight	volume
191578	1	10	440	146	59	64	1	0.62	0.020
191579	2	20	490	161	81	87	1	0.79	0.020



### Stackable drums with tamper evident caps

Made of natural colour high density polyethylene. They embody a **handle** and a **tamper evident**, ribbed screw red **cap**, made of HDPE, with internal joint and internal security ring.

Hermetical closure when the cap is totally screwed.

**ONU ADR** compliant. Suitable for alimentary use. Drums and caps are supplied non screwed.

code	capacity ml	total capacity mm	minimum wall thickness mm	dimensions mm	quantity	weight	volume	pallet quantity
<b>206020</b>	20,000	20,900	1.20	242 x 298 x 365	1	1.00	0.026	48
<b>206025</b>	25,000	25,550	1.20	242 x 298 x 443	1	1.20	0.032	48



### Wide mouth drums with security cap

Made of high density polyethylene.

Translucent natural color.

Self-sealing green screw cap in polyethylene, with white insert plug. It features a black folding handle.

code	capacity l	Ø external body mm	Ø internal mouth mm	height mm	quantity	weight	volume	pallet quantity
<b>202616</b>	5	169	105	288	1	0.22	0.0065	256



### Stackable drum with security cap

Made of high density polyethylene.

It is provided with a sealing screw cap with grip.

This drum has four flat sides suitable for sticking information labels.

They are distinguished by two main characteristics: they can be easily stacked joining the tops and the bottoms together, and they can be palletised thanks to their reduced overall dimensions.

All of them are ONU compliant, meeting all the standards for the transport of hazardous, toxic and noxious products.

code	capacity l	dimensions mm	Ø mouth mm	quantity	weight	volume	pallet quantity
<b>202605</b>	5	198 x 148 x 240	44	1	0.250	0.006	200
<b>202610</b>	10	224 x 193 x 305	44	1	0.450	0.013	100
<b>202620</b>	20	245 x 295 x 375	44	1	0.900	0.027	48
<b>202625</b>	25	245 x 295 x 435	44	1	1.100	0.031	48
<b>202630</b>	30	332 x 290 x 428	49	1	1.300	0.041	36

### Storage bottles

Bottles and caps made of high density polyethylene.

Wide neck bottle (natural colour, translucent) with screw cap (black and blue). It features a double cap: it includes a blue internal cap that works as a plug.

Ribbed cap for a better handling.

Bottles include a sturdy aluminium handle for easy carrying.

Not suitable to transport liquids.

code	capacity l	mouth Ø mm	body Ø mm	height mm	unitary weight g	case quantity	case weight	case volume	pallet quantity
<b>202825</b>	5	100	175	275	190	14	4.9	0.14	224
<b>202826</b>	10	100	215	340	380	6	4.5	0.14	96





### Drums with tap

Made of high density polyethylene.

Heavy duty drums, wall thickness 2 mm.

Can be used at temperatures below 0 °C.

The tap includes a seal ring to ensure a leakproof seal.

Each drum includes a screw cap and a plug for added security.

With two handles for easy transport.

Drums are supplied complete with tap (also available spare tap).

code	capacity l	Ø neck mm	Ø base mm	height mm	quantity	weight	volume
<b>19660</b>	5	47	165	335	1	0.45	0.008
<b>19662</b>	10	55	210	395	1	0.60	0.012

#### Spare tap:

<b>19375</b>	-	-	-	-	1	0.20	0.001
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### Wide and narrow neck drums

Heavy duty drums made of high density polyethylene.

Include an insert plug for a positive leakproof seal, and one handle for easy carrying. Tagging points on neck and cap for a tamper proof closure or for labelling.

Wide mouth drums are designed both for liquids and powders, easy to fill and pour.

#### WIDE NECK BOTTLES (1)

code	capacity l	Ø neck mm	Ø body mm	height mm	quantity	weight	volume	pallet quantity
<b>191640</b>	5	90	165	305	1	0.45	0.008	200
<b>191642</b>	10	120	210	395	1	0.95	0.017	90

#### NARROW NECK BOTTLES (2)

code	capacity l	Ø neck mm	Ø body mm	height mm	quantity	weight	volume	pallet quantity
<b>191646</b>	10	53	210	420	1	0.95	0.018	90





### Wide mouth storage drums with tap and plug

Body and cap made of polyethylene.

Screw cap, green colour, with non hermetical plug.

They embody a tap, and two black folding handles at the top.

Not designed to transport liquids.

External mouth diameter: 150 mm.

code	capacity ml	Ø base mm	height mm	quantity	weight	volume	pallet quantity
209030	30	320	470	1	1.57	0.037	24
209050	50	380	620	1	2.09	0.070	18

### Funnels

Material: polypropylene.

**Autoclavable.**

code	Ø mouth mm	quantity	weight	volume
194171	80	1	0.02	0.0004
194172	100	1	0.02	0.0005
194173	120	1	0.04	0.0006
194175	180	1	0.13	0.0006
194176	220	1	0.30	0.0015
194177	260	1	0.40	0.0020
194178	300	1	0.50	0.0022





### Industrial drums

These drums are produced in high-molecular weight polyethylene. Their particular top, which has a **perfectly stiffened rim obtained** during the moulding phase, prevents the opening from becoming deformed and the lid from becoming detached as a consequence of any drops or violent shocks.

They feature a metal washer that ensures a perfect closure where is also suitable to place a tamper evident seal. Thanks to their **airtight seal**, they are **suitable for transport by sea, road or railway** and, thanks to their construction characteristics and qualities; they **fully meet the current ONU ADR standards for transport of hazardous toxic and noxious products**. Incinerable (excluding the metal closure) These drums are produced using selected top-quality raw materials, they feature excellent drop-impact resistance even at low temperature (-20°C) and stability against corrosion from chemical agents which may cause stress cracking.

Their **internal surface is perfectly smooth**, and this makes it easy to fully empty and completely clean the inside from any powder, paste or semi-dense products. Codes **208030** and **208060** have two handles for easy carrying.

code	capacity l	body Ø mm	mouth Ø mm	height mm	quantity	weight	pallet quantity
<b>208030</b>	30	320	252	502	1	1.17	24
<b>208060</b>	60	405	327	610	1	2.10	18
<b>208128</b>	128	500	378	786	1	4.10	10

### Large deep trays

Made of natural high density polyethylene.  
Stackable. Include ergonomically designed handles.

code	dimensions mm	height mm	tray volume l	quantity	weight
<b>19603</b>	550 x 430	310	50	1	1.80
<b>19604</b>	630 x 440	340	65	1	2.20
<b>19605</b>	720 x 470	360	90	1	3.10





The technical data (dimensions, capacities and resistances) specified in this catalogue are approximated. The resistances (to chemical products, temperature, centrifugation...) may suffer variations depending in external conditions. We recommend to test the product under the forecasted conditions of use. Please do not hesitate to ask for samples if necessary.



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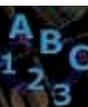
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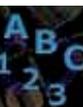
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