



Your needs, our innovations





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Dear customers, distributors, suppliers and friends,

It is a great honour to open with these lines the new edition of the DELTALAB catalogue. This year, DELTALAB celebrates its 40th anniversary and we do so with renewed expectations, proud of a job well done during all these years contributing to the development of the laboratory market.

Our mission is always to design, manufacture and distribute laboratory products of the highest quality, in strict compliance with all standards, and meeting the needs of each one of our clients. This gives our brand the distinction of specialization and allows us to present in this catalogue a wide and select range of products, which perfectly suits your activity.

This catalogue is the result of forty years of service and adapting to the challenges of our industry, based on values such as effort, daily commitment, development and constant research.

DELTALAB, in these 40 years has established itself as a leading manufacturer of laboratory consumables in the Spanish market and an important player in international markets. Our products are present in all five continents, and it is a great satisfaction to know that thanks to our distribution network, the unconditional support of our suppliers, and the effort and dedication of all the people who are part of DELTALAB, today our brand is a reference in the daily work of many laboratories around the world.

Our continuing effort to improve and our policy of investment in R&D allow us to make our production processes more efficient year by year and to work intensively on the product development. This is DELTALAB's commitment: promote innovation for an increasingly demanding market.

All this is shown in our motto: **"your needs, our innovations"**.

A new edition is born.

José Sáez Mateos  
CEO



#### 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 7th 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. 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. 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.
- **SALES CONDITIONS:** You can see our complete sales conditions at DELTALABs Price list.
- Please contact our commercial department for more information.

### Useful information: transport

<b>CONTAINERS: CAPACITY:</b>	20 feet: 28 m3 maximum
	40 feet: 58 m3 maximum
	40 HC feet: 68 m3 maximum
<b>PALLETS:</b>	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

DELTALAB S.L.

## Nomenclator

		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)		
		High resistance tube		
		Packaged in bags		
		Product suitable for food use		
		New		
		Directive 98/79/EC (in Vitro Diagnostic medical device)		
		Directive 93/42/EEC (low and moderate risk medical device)		
		Directive 93/42/EEC (Moderate risk, sterile medical device)		
<b>Class IIa</b>				
		Directive 89/686/EEC (Personal protective equipment)		

**Class IIa**

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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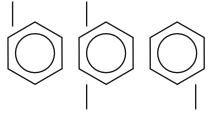
	°C	PELD		PEHD		PP		PS		TPX		ABS		PMMA		PC		PVC		PTFE	
		20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50	20	50
1,4 - dioxane		●	■	●	●	■	■	✕	✕	■	■			✕	✕	■	■	✕	✕	●	●
Acetaldehyde		●	✕	●	■	●	✕	✕	✕	●	✕	✕	✕	✕	✕	■	✕	■	✕	●	●
Acetic acid		●	●	●	●	●	●	■	■	●	●	✕	✕	✕	✕	●	■	●	■	●	●
Acetone		■	✕	●	●	●	●	✕	✕	●	●	■	■	✕	✕	✕	✕	✕	✕	●	●
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	
°C	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

## Chemical resistances

	POLYSTYRENE	HIGH DENSITY POLYETHYLENE	LOW DENSITY POLYETHYLENE	POLYPROPYLENE
GENERAL PROPERTIES	PS	PEHD	LDPE	PP STANDAR
<b>Structure</b>	Amorphous structure with stable dimensions $[-(CH_2-CHn)-CH_2-CH-]_m$  $[-CH-CH_2-(CH-CH_2)-]_m$	The catalytic controlled polymerisation of ethylene minimises the production of compact, lateral structures resulting in a pliable but rigid material. $[-CH_2-CH_2-]_n$	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. $[-CH_2-CH_2-]_n$	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. $[-CH(CH_3)-CH_2-]_n$
<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.

	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

## Sterilisation methods

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'), 134 °C (5')	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 °C 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.

**STERILE A STERILIZATION TYPE:** in this case the parts are not sterilized at the end of its manufacture process since is the process by itself which is able to obtain a sterile product. This is because the entire process from injection of different plastic components to the assembly is protected by a sterile atmosphere, thanks to the cowl of the entire installation and the placement of laminar flows that create an overpressure sterile air inside the facilities.

The sterilization indicator labels are small round stickers that change their color when the material is properly sterilized:

Radiation: from yellow to red.

Ethylene oxide: from violet to green.

## Technical information

### Glove properties chart

	LATEX	NITRILE	VINYL
Mechanical resistance			
- Perforation	■	■	■
- Tearing	■	■	■
Adequate for foodstuff handling	✗	■	✗
Comfort	■	■	■

### Glove chemical resistance chart

#### Diluted mineral acids

Hydrochloric acid	■	■	■
Chromic acid	✗	■	■
Nitric acid	■	■	■
Perchloric acid	■	■	■
Phosphoric acid and Sulphuric acid	■	■	■

#### Concentrated acids

Chlorhydric acid	■	■	■
Chromic acid	✗	■	■
Nitric acid	■	■	■
Sulphuric acid	✗	✗	■

#### Hydrocarbon and oil by products

Aniline	■	■	✗
White spirit	✗	■	■
Styrene	✗	■	■
Gasoline, Hexane, Paraffine, Kerosene	✗	■	■



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.

### 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 farthest 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/s².

It is recommended that the centrifuge caps fit in size and shape to the tubes to be centrifuged.

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

r \ xg	1,000 xg	1,500 xg	2,000 xg	2,500 xg	3,000 xg	3,500 xg	4,000 xg	4,500 xg	5,000 xg	10,000 xg	15,000 xg
50 mm	rpm 4,227	5,177	5,978	6,683	7,321	7,908	8,454	8,967	9,452	13,367	16,371
75 mm	3,451	rpm 4,227	4,881	5,457	5,978	6,457	6,903	7,321	7,717	10,914	13,367
100 mm	2,989	3,661	rpm 4,227	4,726	5,177	5,592	5,978	6,340	6,683	9,452	11,576
125 mm	2,673	3,274	3,781	rpm 4,227	4,630	5,001	5,347	5,671	5,978	8,454	10,354
150 mm	2,440	2,989	3,451	3,859	rpm 4,227	4,566	4,881	5,177	5,457	7,717	9,452
175 mm	2,259	2,767	3,195	3,572	3,913	rpm 4,227	4,519	4,793	5,052	7,145	8,751
200 mm	2,113	2,588	2,989	3,342	3,661	3,954	rpm 4,227	4,483	4,725	6,683	8,185
225 mm	1,993	2,440	2,818	3,151	3,451	3,728	3,985	rpm 4,227	4,456	6,301	7,717
250 mm	1,890	2,315	2,673	2,989	3,274	3,537	3,781	4,010	rpm 4,227	5,978	7,321

## Technical information

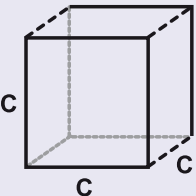
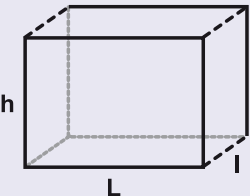
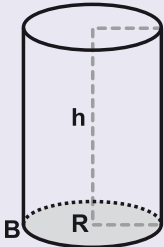
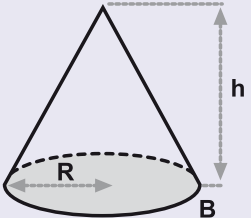
### Metric equivalences

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
			
$V = C^3$	$V = (l \times h) \times l$	$S = 2\pi Rh$ (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
-----------------------------------	----------------------------------	---------------------------







## 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 the collection and transport of microbiological samples are considered invasive surgical-type product and with a use, in compliance with the essential requirements of the "Directive 93/42/EEC. Medical devices". According to the classification rules contained in this Directive, the swabs are part of Class IIa.

The **Agencia Española del Medicamento y Productos Sanitarios** (AEMPS – ON 0318) is the institution who certifies these swabs.

### Presentations



**In bulk:** the non-sterile swabs presented in bags of 100 units.



**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.



**Flow-pack package:** single bag. Polypropylene bioriented bag.



**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).

## Quality standards – Requirements fulfilled by swabs

1. UNE-EN ISO 556-1 Sanitary products sterilisation. Requirements to be designed as "STERILE". Part 1: sterilised sanitary products requirements.
2. UNE-EN ISO 868-2 Packaging materials for medical devices sterilized in its final phase. Part 2: sterilization wrap. Requirements and test methods.
3. UNE-EN ISO 11737-1 Sterilization of medical devices. Microbiological methods. Part 1: determination of a population of microorganisms.
4. UNE-EN ISO 11737-2 Sterilization of medical devices. Microbiological methods. Part 2: sterility tests conducted to validate a sterilization process.
5. UNE-EN ISO 11135-1 Sterilization of medical devices. Ethylene oxide. Part 1: requirements for development, validation and control of the routine of a sterilization process of medical devices.
6. UNE-EN ISO 11137-1 Sterilization of health care products. Radiation. Part 1: requirements for the development, validation, and control of the routine of a sterilization process of PS.
7. UNE-EN ISO 11137-2 Sterilization of health care products. Radiation. Part 2: setting the sterilization dose.
8. UNE-EN ISO 15223-1 Sanitary products. Symbols to use on labels, labelling and information to be supplied. Part 1: general requirements.
9. UNE-EN ISO 14971 Sanitary products. Application of risk on management.
10. UNE-EN ISO 13485 Sanitary products. Systems of quality management. Requirements for regulatory purposes.



See other swabs in **Chapter 12. Safety and general Labware**



Non sterile swabs

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.
- 300205** shaft 147 mm ± 0.3 mm x 2.2 mm ± 0.3 mm Ø.

Other models dimensions:

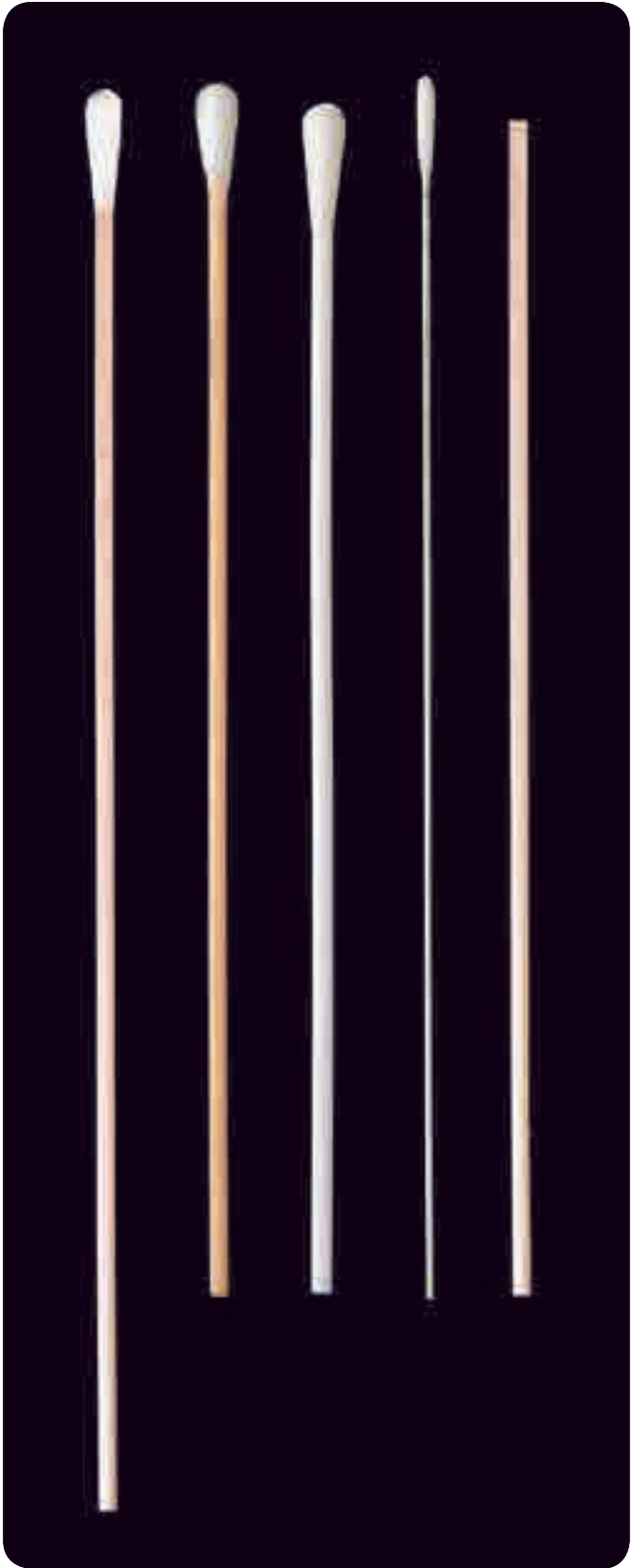
- Wood: shaft 150 x 2.2 mm (tip Ø ± 5 mm).
- Plastic: shaft 150 x 2.5 mm (tip Ø ± 5 mm).
- Aluminium: shaft 150 x 0.9 mm (tip Ø ± 1.5 mm).

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

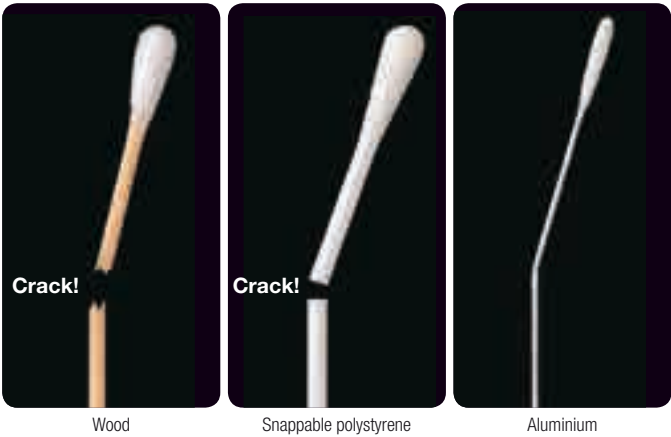
code	description	case quantity	case weight	case volume
<b>300232</b>	extra large wood (200 mm) + cotton	80 x 100	5.00	0.032
<b>300230</b>	standard wood (150 mm) + cotton	100 x 100	4.65	0.032
<b>300260</b>	polypropylene + cotton	40 x 100	2.50	0.012
<b>300243</b>	aluminium + cotton	10 x 100	2.80	0.005
<b>300205*</b>	wooden shaft only	1 x 1,000	0.25	0.010

\* Non **CE** product

Expiry date: 60 months



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





### Sterile swabs

Sterile swabs individually wrapped in peel-pack or flow pack, depending on the model. **Sterilized by ethylene oxide.**  
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
300200	wood + cotton	peel-pack	2 x 1,000	2.25	0.029
310200	wood + cotton	flow-pack	2 x 1,000	2.60	0.029
300201	snappable PS + cotton	peel-pack	2 x 1,000	2.80	0.027
300202	snappable PS + viscose	peel-pack	2 x 1,000	3.50	0.029
310202	snappable PS + viscose	flow-pack	2 x 1,000	2.02	0.029
300203	aluminium + cotton	peel-pack	2 x 1,000	2.40	0.029

Cases per pallet: 54.  
Expiry date: 48 month from sterilization date.

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



### Sterile swabs (2 units)

Two Sterile swabs wrapped in peel-pack, depending on the model. **Sterilized by ethylene oxide.**  
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 with 2 units each one per case.

code	description	package	case quantity	case weight	case volume
300210	wood + cotton	peel-pack	1,000	2.65	0.024
300211.1	snappable PS + cotton	peel-pack	1,000	2.72	0.025

Cases per pallet: 54.  
Expiry date: 48 month from sterilization date.



## Sterile swab in round tube

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	cases per pallet
300250	wood + cotton	4 x 500	14.76	0.060	24
300259	wood + viscose	4 x 500	14.00	0.070	24
300261	snappable polystyrene + cotton	4 x 500	14.90	0.070	24
300252	snappable polystyrene + viscose	4 x 500	15.00	0.066	24
300251	aluminium + cotton	4 x 500	15.00	0.066	24
300253	aluminium + viscose	4 x 500	13.90	0.070	24
300263	snappable polystyrene + polyester	4 x 500	15.00	0.062	24
300250.1	wood + pure cotton	4 x 500	14.00	0.070	24
300254	twisted aluminium + viscose	4 x 500	13.90	0.070	24
<b>NEW</b> 300265*	polystyrene + flocked polyester	4 x 500	14.20	0.065	24

Expiry date: 48 month from sterilization date.

\*Code not available for sale in Italy.

**Twisted aluminium:** This is a material exceptionally flexible to use it in sensitive zones as nasopharyngeal, ocular or for pediatric uses.

**Flocked polyester:** material with high absorbency and overall sample elution.



## Human DNAse, RNAse and DNA free certified swabs, steriles

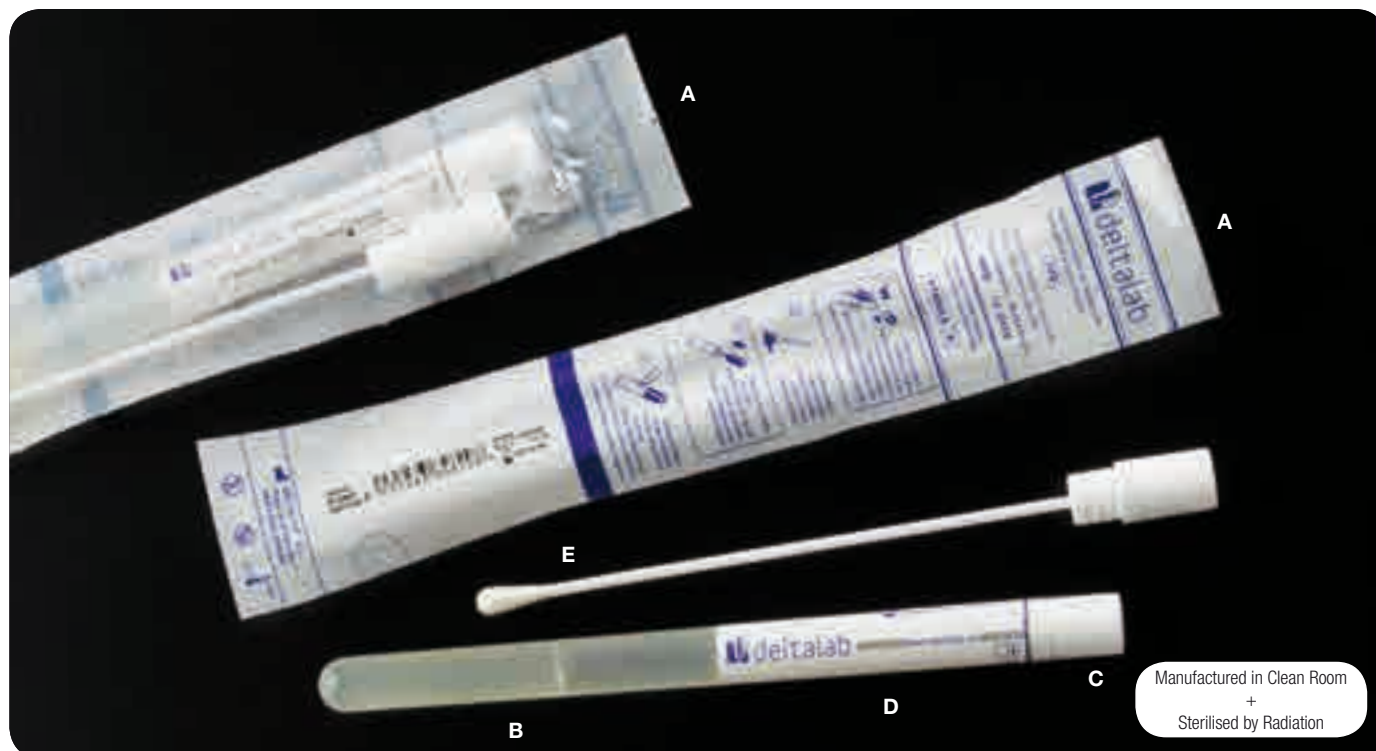
Human DNA free Certified. **Sterilised by ethylene oxide.**

The swab is supplied in a polypropylene tube, which protects the sample up to the laboratory prior to its analysis. The stick of the swab is made of polystyrene while the head is produced with viscose or polyester according to the code. The tube is labeled indicating code, description, lot, expiry date and providing an identifying area to note down collection details (site, date, etc.). Moreover, the label seals the tube with the cap of the swab, acting like a tamper evident system.

code	description	selling unit	case quantity	case weight	case volume
300252DNA	polystyrene + viscose	500	4 x 500	14.20	0.070
300263DNA	polystyrene + polyester	500	4 x 500	14.20	0.070

Expiry date: 48 months from sterilisation date

## Transport swabs with media



### 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
- The peel-pack has a small slit at the top to allow easy opening

### 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!

## 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:

1. **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.
2. **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 with round bottom.
- (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

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
300287	snappable polystyrene + viscose	6 x 100	9.33	0.060
300285	snappable polystyrene + viscose (with charcoal)	6 x 100	9.37	0.058
300281	aluminum + viscose	6 x 100	9.08	0.056
300281/1	aluminum + viscose (with charcoal)	6 x 100	9.15	0.052
300281T	twisted aluminum + viscose	6 x 90	8.24	0.057

Cases per pallet: 32.



## Liquid Amies. Sterile

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  
Staphylococcus epidermidis  
Escherichia coli, 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
300284	snappable polystyrene + viscose	6 x 100	7.60	0.055

Cases per pallet: 32.





## Stuart swabs. Sterile

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
- Staphylococcus aureus
- 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 difficulties 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	9.40	0.057
300291	aluminium + cotton	6 x 100	9.10	0.057
300295	snappable polystyrene + viscose	6 x 100	8.65	0.060

Cases per pallet: 32.



## Cary Blair. Sterile

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
- Vibrio parahaemolyticus
- Haemophilus influenzae
- Neisseria meningitidis
- Bordetella pertusis
- Streptococcus pneumoniae
- Shigella flexneri
- Pasteurella pestis
- Campylobacter Spp., etc.

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	8.50	0.052
300280.2	snappable polystyrene + viscose	6 x 100	8.50	0.056

Cases per pallet: 32.



## Media for virus. Sterile

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

Suitable, among many others:

- Papiloma
- Pseudorabia
- Influenza aviar (H7N1)
- Influenza A (H1N1) o H1N1/09 pandemic
- Suid herpesvirus, etc.

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 radiation**.

Expiry date: 18 months from sterilisation date.

code	description	case quantity	case weight	case volume
<b>300297</b>	snappable polystyrene + polyester	6 x 100	7.75	0.057
<b>300294</b>	aluminium + polyster	6 x 100	7.80	0.056

Minimum order quantity: 100 units.

Cases per pallet: 32.



## Media for Chlamydia. Sterile

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 radiation**.

Expiry date: 12 months from sterilisation.

code	description	case quantity	case weight	case volume
<b>300299</b>	snappable polystyrene + polyester	6 x 100	7.80	0.056

Minimum order quantity: 100 units.

Cases per pallet: 32.



# δswab®

Increased absorption and elution of the sample on the media: flocked polyester.

Maximum reliability and convenience of the breakpoint

Optimum safety: polystyrene

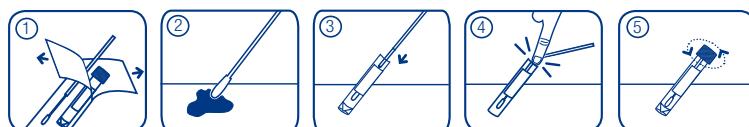
Maximum adaptability: wide range  
Maximum comfort: anatomical and ergonomical design

## Flocked swab with media

Deltalab presents a new range of kits for collecting and transporting microbiological samples in liquid medium as well as a new line of enrichment media, endeavouring to make microbiology departments and analysis laboratories' jobs easier.

### Advantages:

- Compatible with the new inoculation automation and sample streaking equipment.
- Compatible with molecular diagnostic techniques.
- Facilitates the collection, transport and subsequent treatment of microbiological samples.
- Greater reliability for sample recovery: high capacity for the absorption and elution of the sample from the polyester flocked swab, developed by Puritan Medical.
- Greater feasibility of the sample as it is totally suspended in the medium.
- Allows different homogeneous innocula to be obtained from the same sample.
- It adapts to any working protocol.
- Minimises any possible cross-contamination: less handling and maximum watertightness.
- More comfort for the user: conical base which facilitates stirring and greater stability of the tube with skirt base.
- More comfort for the patient, due to the softer swab covering.
- Standardises the receipt of samples at the microbiology labs.
- Facilitates manual streaking.
- Allows direct extension on the glass slide as the medium does not contain agar.
- Ensures proper sample transport and storage both at room temperatures (20°C - 25°C) and at refrigeration temperatures (4°C - 8°C).



## Amies

Particularly suited for microbiological sample collection and transport. It maintains the viability of Aerobes, Facultative Anaerobes and Anaerobes Bacteria for a minimum of 48 hours both at room temperature (20-25°C) and at refrigeration temperature (2-8°C) and 24 hours with Fastidious Bacteria, following CLSI, M40-A2\* standard methodology. Designed both for traditional and automated sample streaking. Compatible with the molecular diagnostic techniques and for direct extension on glass slides.

### Sterilised by radiation.

Peel-pack package.

mod.	code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
1	304281*	1	with standard flocked swab	Blue	80	6 x 100	5.7	0.056
2	304282*	1	with urethral flocked swab	Yellow	80	6 x 100	5.6	0.056
3	304285*	1	with nasopharyngeal flocked swab	Cyan	100	6 x 100	5.6	0.056
4	304286*	1	with minitip flocked swab	Red	100	6 x 100	5.5	0.056

\* M40-A2: CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition

Shelf life: 30 months

\*Code not available for sale in Italy.





Cary Blair

Specially suited for the collection and transport of faecal samples. Maintains the viability of the fecal pathogens for a minimum of 48 hours without overgrowth, following CLSI, M40-A2\* standard methodology. Designed for carrying out sample collection directly from the rectum or from faeces.

Designed for traditional and automated sample streaking. Compatible with the molecular diagnostic techniques by PCR and for direct extension on glass slides.

Peel-pack package. **Sterilised by radiation.**

code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
304280*	2	with standard flocked swab		80	6 x 100	6.3	0.056

\* M40-A2: CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition.

Shelf life: 30 months

\*Code not available for sale in Italy.



VicUM®

Particularly suited for collecting and transporting microbiological samples which contain Virus, Chlamydia, Ureaplasma and/or Mycoplasma. Includes antibiotics which inhibit the growth of Bacteria and Fungi; this ensures reliability in terms of sample recovery. Maintains the infectability of viruses for a minimum of 96 hours both at room temperature (20-25°C) and at refrigeration temperature (2-8°C), following CLSI, M40-A2\* standard methodology.

Each tube contains glass beads to facilitate cell lysis, sample homogeneousness and maximize the elution of the sample from the swab. Designed for cell cultivation and compatible with molecular diagnostic techniques by quantitative PCR. Peel-pack package.

**Swab sterilised by radiation.**

mod.	code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
B 1	304271*	1	with standard flocked swab		80	6 x 60	4.7	0.056
B 1	304278*	2	with standard flocked swab		80	6 x 60	5.1	0.056
B 2	304276*	2	with urethral flocked swab		80	6 x 60	5.0	0.056
B 3	304270*	2	with nasopharyngeal flocked swab		100	6 x 60	5.0	0.056
B 4	304279*	2	with minitip flocked swab		100	6 x 60	5.0	0.056
A 1	304273*	3	with standard flocked swab		100	6 x 40	4.8	0.056

\* M40-A2: CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition.

Shelf life: 30 months

\*Code not available for sale in Italy.



Virus

Particularly suited for collecting and transporting microbiological samples which contain viruses. By including antibiotics which inhibit the growth of Bacteria and Fungi, it ensures the trustworthiness of the sample. It maintains the infectability of viruses for up to 96 hours, both at room temperature (20-25°C) and at refrigeration temperature (4-8°C), following CLSI, M40-A2\* standard methodology.

Designed for cell cultivation and to be compatible with the molecular diagnostic techniques by quantitative PCR. Peel-pack package. **Sterilised by radiation.**

mod.	code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
B 1	304291*	1	with standard flocked swab		80	6 x 100	5.7	0.056
B 3	304297*	1	with nasopharyngeal flocked swab		100	6 x 100	5.5	0.056
A 3	304295*	3	with nasopharyngeal flocked swab		100	6 x 80	7.0	0.056

\* M40-A2: CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition.

Shelf life: 30 months

\*Code not available for sale in Italy.



## Enrichment media

NEW



### Selenite

Enrichment medium that inhibits the proliferation of bacterial microbiote. It is particularly suited for isolating *Salmonella* from faecal samples, food and/or water. It is used as an enrichment medium for clinical and industrial samples. Easy and practical. Compatible with manual and automated systems of microbiological culture and suitable for molecular assays.

code	description	tube height mm	cap Ø mm	case quantity	case weight	case volume
<b>304210</b>	2 ml Selenite	82,6	16,6	6 x 60	2,84	0,025

Shelf life: 24 meses



NEW



### Thioglycolat

Widely used enrichment media for isolation and cultivation of Aerobic and Anaerobic Bacteria and Fastidious Bacteria. It is used as an enrichment media for clinical samples. Easy and practical. Compatible with manual and automated systems of microbiological culture and suitable for molecular assays.

code	description	tube height mm	cap Ø mm	case quantity	case weight	case volume
<b>304211</b>	2 ml Thioglycolat	82,6	16,6	6 x 60	2,84	0,025

Shelf life: 24 meses



NEW



### LIM Broth

Selective enrichment medium for Group B Streptococcus, including *S. agalactiae*. The kit consists of a tube with conical bottom, skirted and screw cap, containing 2 ml LIM broth, and a standard flocked swab. Packed in peel pack (plastic + medical paper) with the basic information and instructions printed.

**Swab sterilised by radiation.**

code	description	tube height mm	cap Ø mm	case quantity	case weight	case volume
<b>304212*</b>	2 ml LIM	82,6	16,6	6 x 60	4,00	0,056

Shelf life: 12 meses

\*Code not available for sale in Italy.





## Surface Kit

The new surface kits are supplied with a swab and a tube containing a buffered broth with neutralising agents.

Kits are intended for surface sampling for subsequent microbiological analysis. The kit is a single use product and is **sterilised by radiation**.

The swab is composed of a polystyrene support with a breakpoint (only reference **200398**) and a viscose tip.

The tube incorporates a pressure or screwed cap.

The kit is intended to be used by skilled personnel, properly trained in surface sampling.

The kit is presented individually wrapped in a peel-pack format.

The kit is complemented with the sampling template (**200396P**).

It has a hole of 4x5 cm to perform the sampling, is **sterile** and its supplied in a flow-pack.

mod.	code	description	esterile	case quantity	case weight	case volume
1	<b>200398</b>	10 ml neutralising broth in skirted tube + viscose swab	<b>STERILE R</b>	6x80	10.30	0.0560
2	<b>200399</b>	5 ml neutralising broth in non skirted tube + viscose swab	<b>STERILE R</b>	6x100	10.26	0.0560
3	<b>200396P</b>	Surface sampling template 4x5 cm	<b>STERILE R</b>	20	0.75	0,0015



## Meat sampling kit

Designed according to the international standard **ISO 17604**, which is taken as reference on European Directives and Rules about microbiology of food and animal feeding stuff – carcass sampling for microbiological analysis.

The kit includes:

- A bottle containing 25ml of sterile buffered peptone water
- A disposable sterile template, supplied in a flow pack bag
- A sponge

code	packaging	esterile	case quantity	case weight	case volume
<b>200393.V</b>	carcass sampling kit with sponge	<b>STERILE R</b>	20	3.00	0.025
<b>200393P</b>	template meat sampling	<b>STERILE R</b>	20	0.75	0.0051





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	cases per pallet
With three vents						
200200	Ø 90 x 14 mm	no	25 x 20	7.32	0.071	28
200209	Ø 90 x 14 mm	STERILE R	25 x 20	7.39	0.071	28
Not vented dishes, for the cultivation of anaerobic						
200200.4	Ø 90 x 14 mm	no	25 x 20	6.90	0.071	28



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.

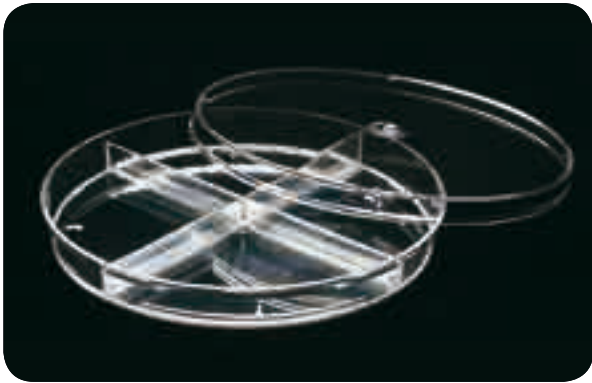
code	description	case quantity	case weight	case volume	cases per pallet
200202	Ø 90 x 14 mm 2 compartments	25 x 20	7.75	0.072	28



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.

code	description	case quantity	case weight	case volume	cases per pallet
200203	Ø 90 x 14 mm 3 compartments	25 x 20	7.82	0.070	28



90 x 15 mm Petri Dish, four compartments

Made in polystyrene. **Aseptic**.  
Vented.  
Supplied in groups of 24 units, packaged in heat sealed bags.  
Suitable for automatic filling machines.

code	description	case quantity	case weight	case volume	cases per pallet
200210	Ø 90 x 15 mm 4 compartments	24 x 25	9.20	0.077	28



90 x 25 mm Petri Dish, four compartments

Made in polystyrene. **Aseptic**.  
Vented.  
Supplied in groups of 24 units, packaged in heat sealed bags.  
Suitable for automatic filling machines.

code	description	case quantity	case weight	case volume	cases per pallet
200215	Ø 90 x 25 mm 4 compartments	24 x 13	8.63	0.076	24



## 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.

Internal cross guarantees the totally flat base.

code	description	case quantity	case weight	case volume	cases per pallet
<b>200200.5</b>	Ø 90 x 15 mm internal cross	24 x 25	7.50	0.076	20



## 140 x 20 mm Petri Dish

Made in polystyrene. With three vents.

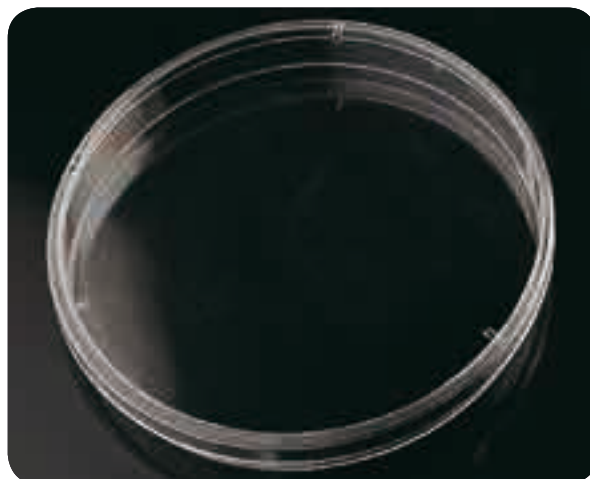
Supplied in groups of 10 units, packaged in heat sealed bags.

Suitable for automatic filling machines.

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

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

code	description	sterile	case quantity	case weight	case volume	cases per pallet
<b>200214</b>	Ø 140 x 20 mm	no	11 x 15	7.40	0.074	30
<b>200219</b>	Ø 140 x 20 mm	<b>STERILE R</b>	11 x 15	7.25	0.072	30



## 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.

code	description	case quantity	case weight	case volume	cases per pallet
<b>200204</b>	120 x 120 mm	24 x 10	11.18	0.072	28



## 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	cases per pallet
<b>200201</b>	Ø 55 x 14 mm	no	80 x 15	8.40	0.068	30
<b>200201.B</b>	Ø 55 x 14 mm	<b>STERILE R</b>	80 x 15	8.40	0.068	30





### 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 16 or 32 Petri dishes.

code	description	dimensions* mm (height without handle)	case quantity	case weight	case volume
<b>H-600</b>	1 section, holds up to 10 dishes	105x110x250	1	0.16	0.005
<b>H-601</b>	2 sections, holds up to 20 dishes	105x215x250	1	0.31	0.010

\*Length x width x height.

Height with handle: 360 mm.

We can supply customer-designed models.

NEW



### Jar for anaerobes incubation

Incubation system for petri dishes in practical and simple anaerobiosis. Jar designed for use with any of anaerobiosis that generate special atmospheres. Up to 14 90mm diameter petri plates. Metal cap fixed by locking pressure system. Stainless steel rack. Viton® O-ring. Compatible with all the usual reagents in microbiology.

code	dimensions* (mm)	case quantity	case weight	case volume
<b>H-625</b>	119,4x285	1	1,17	0,0072

\*Diameter x height.

## Contact plates

### Aseptic production.

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

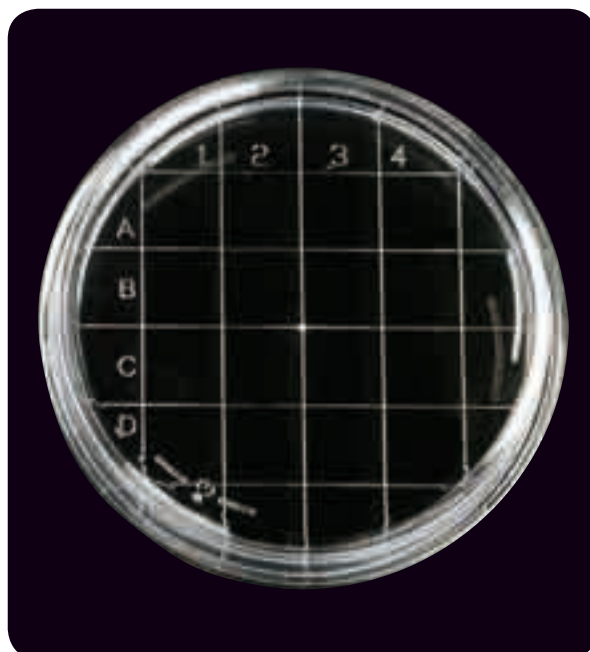
They are manufactured in transparent polystyrene.

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
<b>200208</b>	Rodac contact plate	no	25 x 20	5.00	0.031	70
<b>200218</b>	Rodac contact plate	<b>STERILE R</b>	25 x 20	4.90	0.030	70



## 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
<b>H-610</b>	266 x 165 x 178	1	0.39	0.002

\*Length x width x height.



## 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	0.40	0.005

\*Length x width x height.



See **chapter 4. Histology, microscopy and staining**



See **chapter 5. Sampling and transport**



### 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
H-615	251 x 237 x 35	3	0.82	0.011



### 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)



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 62. Available sterile or non sterile, both supplied individually wrapped.

Plate dimensions: 127.7 x 85.8 mm.  
Well plate estimate volume:  
**900010**: 0.281 µl.  
**900011**: 0.404 µl.  
**900012**: 0.219 µl.

code	description	sterile	case quantity	case weight	case volume
900010	microtitre plate "U" form	STERILE R	50	2.15	0.013
900010.1	microtitre plate "U" form	non	50	2.15	0.013
900011	microtitre plate "L" form	STERILE R	50	2.15	0.013
900011.1	microtitre plate "L" form	non	50	2.15	0.013
900012	microtitre plate "V" form	STERILE R	50	2.15	0.013
900012.1	microtitre plate "V" form	non	50	2.15	0.013
900015	lid for microtitre plate	STERILE R	50	1.16	0.013
900015.1	lid for microtitre plate	non	50	1.16	0.013





## CRYOINSTANT: Porous beads for microbiological culture preservation

Cryolstant 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 polypropylene (page 145). 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 °C**.

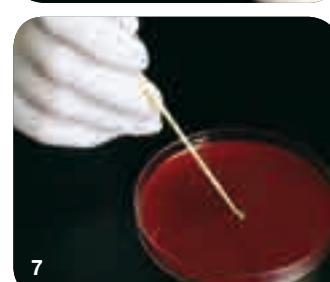
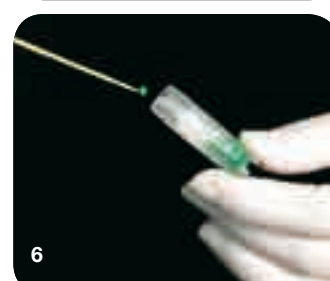
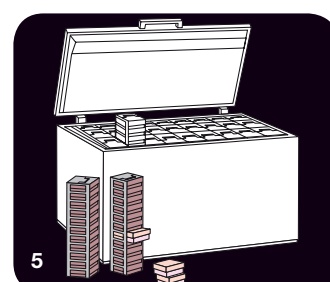
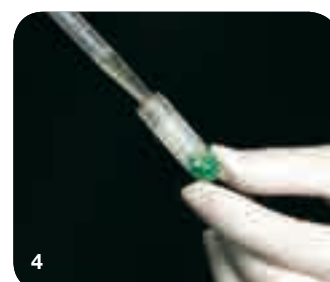
In order to ease the classification of the samples, we offer the possibility to get cryovials with caps and beads in five different colours: every code displays caps and beads from a single and same colour (excepting code **409113/6**, which is an assortment), allowing a fast and easy identification of the samples, and providing a system whereby users are able to code different bacterial species, different samples, different laboratories, etc. And even more: with colour coded inserts (described on page 144) a further classification can be made.

Cryovials are presented in carton boxes (resistant to **-100 °C**; dimensions: 150x150x55 mm) with 100 units; boxes are furtherly described in page 202. Each box is supplied plastic-wrapped and labelled with code reference, batch, expiration date and specifying the colour of the caps and beads. Shelf life: 48 month. **Autoclave sterile**.

code	beads and cap colour	case quantity	case weight	case volume
<b>409113/1</b>	white	100	0.59	0.002
<b>409113/2</b>	blue	100	0.59	0.002
<b>409113/3</b>	yellow	100	0.59	0.002
<b>409113/4</b>	red	100	0.59	0.002
<b>409113/5</b>	green	100	0.59	0.002
<b>409113/6</b>	assorted: 5 colours x 20 cryovials	100	0.59	0.002

### Way of use:

- 1 Take the sample from the strain with a loop (please see our loops on page 34 and 35)
- 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 188-192)
- 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.

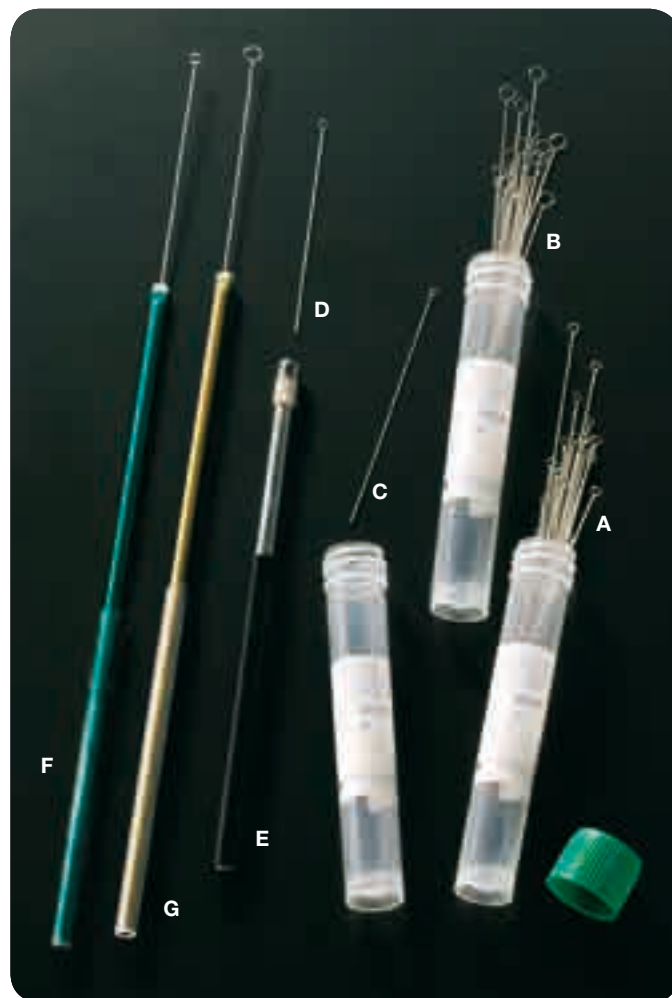
The curved Spreader extremity and rounded corners avoid damaging media surface while spreading.

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

It allows 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
200500	5 units peel-pack	200 x 5	3.00	0.025
200510	1 unit peel-pack	500	2.44	0.026



## 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	dimensions mm	quantity
A	302762	Non-calibrated loop 2 mm Ø	75	25
B	302764	Non-calibrated loop 4 mm Ø	75	25
C	302771	Calibrated loop 1 µl	150	1
D	302772	Calibrated loop 10 µl	150	1
E	302780	Loop holder, PVC and aluminium	150	1
F	302792	Non-calibrated loop (2 mm Ø) with holder	275	5
G	302794	Non-calibrated loop (4 mm Ø) with holder	275	5



## Sterile calibrated loops

Manufactured in flexible polystyrene.

**Sterilized by radiation.**

Two sizes available: 1 µl and 10 µl.

Very flexible loop, with rounded tip.

Not recommended for colony counting.

Sterile inoculating loops.

Batch and expiry date printed on the bag.

code	µl	presentation	colour	case quantity	case weight	case volume
<b>302703</b>	1	10 ud./peel-pack	green	4 x 500	5.00	0.038
<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	4.91	0.038
<b>302724</b>	10	20 ud./peel-pack	blue	4 x 1,000	8.04	0.036

## Sterile calibrated loops

**NEW**

Loops made of polystyrene, high robustness and adequate flexibility for comfortable and efficient use. **Sterilised by radiation.**

Double use loops: at one of the ends there is the loop for streaking in Petri dishes, using both qualitative and quantitative techniques. At the other end there is a fine tip specially designed for counting colonies.

Available in 2 volumes: 1 and 10 µl. The green and blue colors are used to easily differentiate the 2 volumes in the laboratory.

They offer great ergonomics and gripping thanks to its hexagonal design of its section which provide ease of orientation while using it.

There are 3 presentations: individual pack, 10 and 20 units. All of them are supplied in a plastic packaging with easy opening.

The loops are calibrated. **Deltalab** certifies the control of the dimensional accuracy of the diameter of the loop by means of specific gauge (Calibration certificate available under request).

code	µl	presentation	colour	case quantity	case weight	case volume
<b>302743</b>	1	individual flow pack	green	2 x 600	1,90	0,029
<b>302744</b>	1	peelable flow pack 10 units	green	2 x 1.400	2,95	0,029
<b>302745</b>	1	peelable flow pack 20 units	green	2 x 2.500	4,31	0,029
<b>302753</b>	10	individual flow pack	blue	2 x 600	1,90	0,029
<b>302754</b>	10	peelable flow pack 10 units	blue	2 x 1.400	3,00	0,029
<b>302755</b>	10	peelable flow pack 20 units	blue	2 x 2.500	4,34	0,029







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



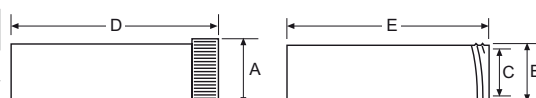
Made of **autoclavable (121 °C)** transparent polypropylene or polystyrene. Green cap made of high density polyethylene.  
Dimensions: 15 x 102 mm. The external skirt allows the tubes to remain **free-standing**. Supplied screwed. Recommended volume: 12 ml. The sterile model (ethylene oxide) is supplied 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 xg. PP: 15,000 xg.**

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

mod.	code	description	autoclavable	maximum volume ml	volume recommandé. ml	case quantity	case weight	case volume	cases pallet
1	<b>301403</b>	polystyrene		14.4	12	6 x 250	12.90	0.082	20
2	<b>301402</b>	<b>STERILE EO</b> polystyrene individually wrapped		14.4	12	6 x 250	13.40	0.096	16
3	<b>401402</b>	<b>STERILE EO</b> polypropylene individually wrapped	✓	14.2	12	6 x 250	12.03	0.096	16
4	<b>401403</b>	high transparency polypropylene	✓	14.2	12	6 x 250	11.11	0.082	20

### 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



## 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 xg** 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	4.24	0.033
<b>300808</b>	17 x 100	8 x 125	7.14	0.060



Loose position  
for aerobic work



PosSealed position for  
anaerobic cultures



### 15 ml and 50 ml centrifugal tubes



Made of polypropylene, suitable for both clinical and research applications.  
**DNase, RNase and pyrogen free.** They are also free from natural rubber and heavy metals.  
High transparency of the material for a clear visualization during experiments specially for molecular biology and animal tissue culture.  
Tube and cap designed with the system of flat threads for a complete leakproof.  
Highly smooth hydrophobic surface for minimum disturbance during centrifugation.  
Silk-screen blue graduation in the tube and large white frosted portion for easy writing.  
**Autoclavable at 121 °C.**  
Centrifugation resistance: **14.000 xg**, except code **429931: 7.000 xg** and codes **429950, 429951: 3.500 xg**  
It is recommended to use adapters to centrifuge and avoid malformations.  
Available models: 15 ml non-skirted and 50 ml skirted and non-skirted.

code	description	presentation	sterile	case weight	case volume	cases per pallet
15 ml tubes						
429940	non-skirted tube	500 tubes in bulk	NO	500	4.50	0.0281
429945	non-skirted tube	20 bag to 25 tubes.	NO	500	4.50	0.0281
429942	non-skirted tube	20 bag to 25 tubes.	STERILE R	500	4.02	0.0300
50 ml tubes						
429930	non-skirted tube	20 bag to 25 tubes.	NO	500	7.70	0.0844
429931	non-skirted tube	20 bag to 25 tubes.	STERILE R	500	7.44	0.0820
429950	skirted tube	20 bag to 25 tubes.	NO	500	8.80	0.0844
429951	skirted tube	20 bag to 25 tubes.	STERILE R	500	8.38	0.0820



## EUROTUBO® 15 ml conical tubes



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.

Autoclave not recommended for the codes **429920** and **429946**, as they have been **sterilised by radiation**.

Code **429920** is supplied sterile (100 units bags).

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

Code **429946** is supplied sterile in individual bags. Resistance to centrifugation: **7,000 xg** (non sterile model) and **5,000 xg** (sterile models).

It is recommended to use adapters to centrifuge and avoid malformations.

Length (with cap): 120 mm. External mouth diameter: 17 mm. External cap diameter: 20,9 mm.

code	description	autoclavable	case quantity	case weight	case volume	cases per pallet
<b>429910</b>	non sterile	✓	500	3.80	0.030	54
<b>429920</b>	<b>STERILE R</b>		5 x 100	3.90	0.029	54
<b>429946</b>	<b>STERILE R</b> individually bagged		500	3.96	0.040	40





## EUROTUBO® 50 ml conical tubes

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 xg**. Autoclave not recommended as they have been ionised. Non sterile codes withstand up to **12,000 xg** 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. You need to use the proper adapters to the tube of the code **429926** during the centrifugación to avoid malformations.

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	7.80	0.072	20
<b>429900SP</b>		non skirted, unscrewed cap	34.4	27.2	29.5	117.5	500	7.90	0.082	20
<b>429901</b>		skirted	34.4	27.2	29.5	117.5	500	8.50	0.082	20
<b>429926</b>	<b>STERILE R</b>	non skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.00	0.080	20
<b>429926.25</b>	<b>STERILE R</b>	non skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.30	0.082	20
<b>429926.10</b>	<b>STERILE R</b>	non skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	7.90	0.082	20
<b>429927</b>	<b>STERILE R</b>	skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.80	0.082	20
<b>429927.25</b>	<b>STERILE R</b>	skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.80	0.082	20
<b>429927.10</b>	<b>STERILE R</b>	skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	8.50	0.082	20



Please find racks for these tubes in  
**Chapter 9. Sample Storage**

**POLYPROPYLENE RACKS:**  
• W-018  
• 19568  
• 19570



**METAL RACKS:**  
• R-292 • R-293  
• R-281 • R-282  
• R-283





## 15 ml and 50 ml conical high resistance tubes. Sterile

Tubes made of transparent, copolymer polypropylene.

Green caps made of polyethylene with an internal liner 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** (15 ml) and **−80 °C** (50 ml)..

Resistance to centrifugation: **17,000 xg** (15 ml) and **20,000 xg** (50 ml).

Autoclavable tube (the liner of the cap is not autoclavable)

Supplied 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	presentation	capacity ml	dimensions mm	case quantity	case weight	case volume
1	409920	bag 50 units	15	17 x 118	10 x 50	3.90	0.029
2	409922	bag 50 units	50	29.6 x 114.6	10 x 50	8.07	0.076





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

Volumes range from 1 to 50 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).

Precision certified according to ASTM E934 and ISO 12771.

code	capacity ml	presentation	cotton colour	case quantity	tip	graduation ml	negative graduation ml	total capacity ml	case weight	case volume	cases pallet
900030	1	1 peel-pack	yellow	4 x 500	A	0/0.9	until -0.3	1.3	10.00	0.072	24
900031	1	bag of 25	yellow	4 x 1,000	A	0/0.9	until -0.3	1.3	14.52	0.071	30
900130	1	1 peel-pack	yellow	4 x 500	C	0/0.9	until -0.3	1.3	10.10	0.071	30
900131	1	bag of 25	yellow	4 x 1,000	C	0/0.9	until -0.3	1.3	14.00	0.071	25
900032	2	1 peel-pack	green	4 x 500	A	0/1.8	until -0.4	2.4	10.60	0.072	30
900033	2	bag of 25	green	4 x 1,000	A	0/1.8	until -0.4	2.4	17.20	0.071	30
900034	5	1 peel-pack	dark blue	4 x 250	A	0/4	until -3	8	12.40	0.072	24
900038	5	bag of 25	dark blue	4 x 375	A	0/4	until -3	8	15.00	0.071	30
900144N	5	1 peel-pack	dark blue	4 x 250	B	0/4	until -3	8	12.20	0.072	30
900036	10	1 peel-pack	orange	4 x 200	A	0/9	until -3	13	11.45	0.072	24
900037	10	bag of 25	orange	4 x 250	A	0/9	until -3	13	13.08	0.071	30
900146N	10	1 peel-pack	orange	4 x 200	B	0/9	until -3	13	11.51	0.072	30
900136N	10	1 peel-pack	orange	4 x 200	C	0/9	until -3	13	11.51	0.072	30
900041	25	1 peel-pack	red	4 x 100	A	0/23	until -10	35	11.20	0.072	24
900043	50	1 peel-pack	pink	4 x 25	A	1/2	until -10	60	2.50	0.019	60



Find trays, rotary stands and other products for pipettes in  
**Chapter 12. Safety and General Labware**



Please find racks for these tubes in **Chapter 9. Sample Storage**



See our plastic Pasteur pipettes in **Chapter 8. Liquid Handling**



### EUROTUBO® Pipetting bulb

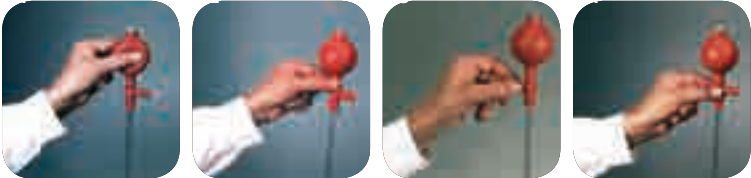
This one-handed design is the simplest safety pipette filler to use available. Manufactured in natural orange rubber.

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	0.05	0.004



- 1. Evacuate the air by pressing the bulb, as the drawing indicates.
- 2. Intake by pressing on point B (up arrow).
- 3. Drain the liquid by pressing on point A (down arrow).
- 4. Blow out the pipette by pressing as the drawing indicates (point C).



### 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	0.04	0.0002



### 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.

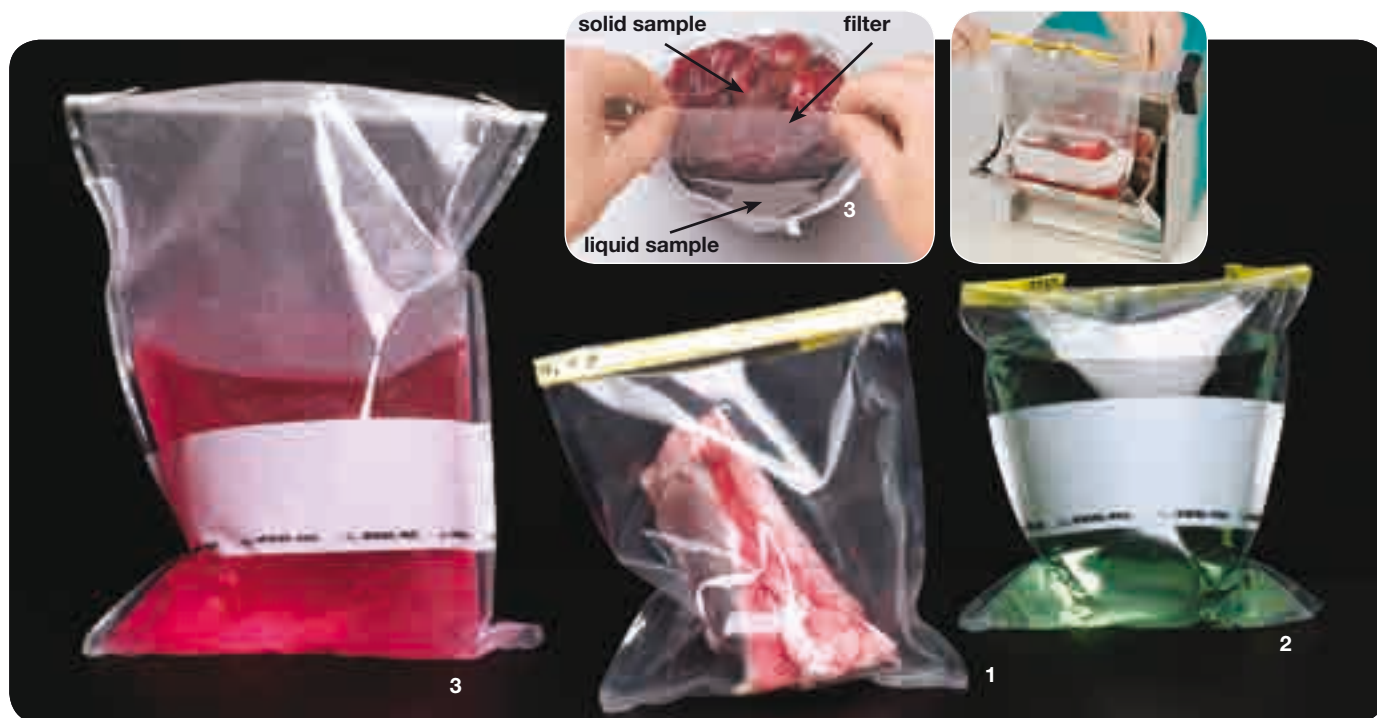
Sizes are colour coded.

Pipette pumps resist acids and alkalis.

code	description	colour	bag quantity	bag weight	bag volume
W-100	up to 2 ml	blue	1	0.06	0.0002
W-110	up to 10 ml	green	1	0.06	0.0002
W-120	up to 25 ml	red	1	0.06	0.0002

Pipette pump support rack  
See **chapter 12. Hygiene and safety.**





## 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 110).

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 Oxide sterilised.** Made with materials suitable for alimentary use.

mod.	code	description	alimentary use	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
1	<b>200342</b>	standard bag	✓	390	13 x 19	76	500	2.50	0.0170
1	<b>200343</b>	standard bag	✓	720	15 x 23	102	500	3.88	0.0168
<b>NEW</b> 2	<b>200350</b>	bag with write-on strip	✓	720	15 x 23	102	500	3.88	0.0168
2	<b>200351</b>	bag with write-on strip	✓	1,650	19 x 30	102	500	5.66	0.0182
3	<b>200373</b>	bag with filter and write-on strip	✓	720	15 x 23	102	250	1.98	0.0166
3	<b>200376</b>	bag with filter and write-on strip	✓	1,650	19 x 30	102	250	3.88	0.0180
3	<b>200374</b>	bag with filter and write-on strip	✓	2,041	19 x 38	102	250	4.28	0.0170

## Sterile bags for STOMACHER® blenders

Made of polyethylene. Thickness: gauge 300. 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.

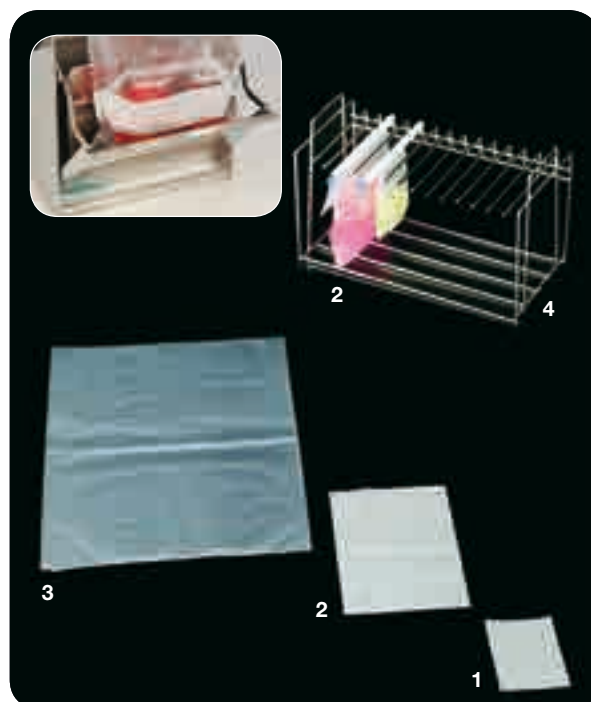
To close bags. May be used with the rack **15006**.

Compounded by a blue tubular piece (230 mm) and a white clip (197 mm) which tightens the bag around the blue tube.

Code **15007** is a clip to close and 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 ml	case quantity	case weight	case volume
1	<b>15001</b>	bag 100 x 155 mm	80	100 x 25	5.00	0.014
2	<b>15003</b>	bag 180 x 300 mm	400	20 x 25	4.20	0.014
3	<b>15004</b>	bag 380 x 580 mm	3,500	8 x 25	6.12	0.014
4	<b>15006</b>	rack 390 x 200 x 240 mm	-	1	1.77	0.039
5	<b>15007</b>	clips	-	50	0.77	0.004





### Sterile homogeniser lateral filter bag

Filter bag suitable for PCR and small volumes, it can be used with very short pipette.

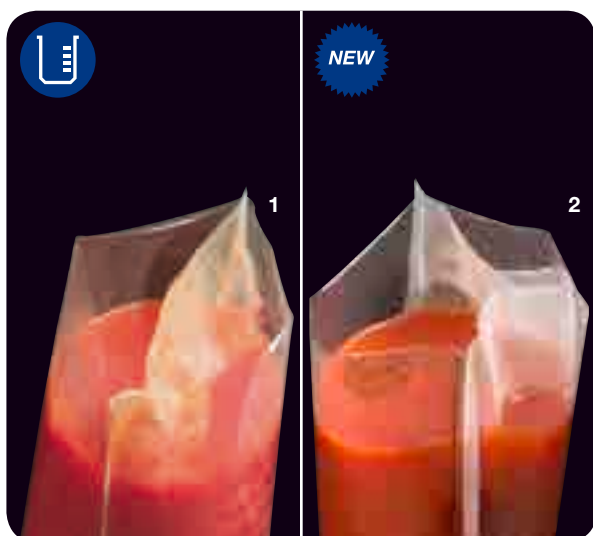
The unique and patented Pull-Up system allows to pinch the bag and pull up the filtered liquid for easy pipetting.

Nonwoven side filter having a porosity of 50 microns, rigid and transparent. The filtration is performed during homogenization, it is not necessary to wait for the sedimentation of particles.

Compatible with any lab blender.

**Steriles by radiation.**

code	packaging	case quantity	case weight	case volume
<b>15008</b>	homogeniser lateral filter bag 400 ml	10x25	2.72	0.010



### Sterile homogeniser full size filter bag

Bag made of transparent polyethylene (PE) divided in two parts by a filter:

**15005:** the filter is integrated into the bag.

**122000:** joined to the bag by a point in the upper part of the sheet.

The sample is inserted into one of the compartments and, after being homogenised and filtered, the solid particles remain in the initial compartment, while the liquid ones pass to the other compartment and can be extracted with a pipette without any risk of obstruction.

mod.	code	packaging	sterile	case quantity	case weight	case volume
1	<b>15005</b>	bag 190x300 mm	<b>STERILE R</b>	500	6.50	0.047
2	<b>122000</b> <small>NEW</small>	bag 190x300 mm	<b>STERILE R</b>	20x25	5.92	0.020

mod.	code	filter	recommended working volume (ml)	maximum capacity (ml)	bag graduation
1	<b>15005</b>	286 holes/cm <sup>2</sup>	50-400	1,600	YES (each 100 ml)
2	<b>122000</b> <small>NEW</small>	280 microns	1,600	1,600	NO



### 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	0.02	0.001







## Sodium thiosulfate sterile bags Whirl-Pak

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

Te code **292603** contains one tablet of 10 mg sodium thiosulfate and the code **292604** contains **3 tablets**.

### Ethylene oxide sterile.

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
<b>292603</b>	for 100	7.5 x 18.5	100	0.41	0.0025
<b>292604</b>	for 300	11.5 x 23	100	0.54	0.0035

NEW



## Long-handled dippers

Polypropylene cup and polyethylene handle.

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

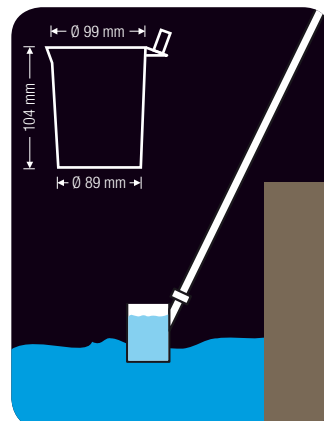
Two pouring spouts on the 500 ml dipper make it useful for left or right handed people to pour from either side.

The end of the handle has a hook for hanging.

**Autoclavable** container (up to 121°C).

code	description	quantity	weight	volume
<b>19575</b>	91 cm handle, 500 ml container	1	0.30	0.009
<b>19576</b>	183 cm handle, 500 ml container	1	0.76	0.020
<b>19577</b>	container 500 ml (fits either handle)	1	0.30	0.005

Please ask the commercial department for other lengths.





## Sterile jars for water sampling

Transparent squared jars made of PET.

Wide mouth and grips at two sides, easing the sample collection.

Red cap made of polypropylene with internal liner made of polexan with a label that performs as tamper evident.

**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 analyze 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	cases per pallet
1	282340	jar <b>with thiosulfate</b>	STERILE R	500	44	2.68	0.036	40
2	282341	jar <b>with thiosulfate</b>	STERILE R	1,000	48	4.30	0.076	20
3	282350	jar <b>without thiosulfate</b>	STERILE R	500	44	2.68	0.036	40
4	282351	jar <b>without thiosulfate</b>	STERILE R	1,000	48	4.30	0.076	20

\*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.



See industrial funnels on **Chapter 13. Laboratory and industrial packaging**



Please ask for customized labes



### 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 joint. Hermetical closure.

#### Sterilised by radiation.

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 (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.

code	description	sterile	capacity ml	case quantity	case weight	case volume	cases per pallet
282320	bottle <b>with thiosulfate</b>	STERILE R	500	24	1.35	0.025	48
282321	bottle <b>with thiosulfate</b>	STERILE R	1,000	20	1.67	0.033	42
282323	bottle <b>with thiosulfate</b>	STERILE R	500	111	6.00	0.110	16
282323.BU	bottle <b>with thiosulfate</b> , individually wrapped	STERILE R	500	111	6.04	0.110	16
282324	bottle <b>with thiosulfate</b>	STERILE R	1,000	68	5.15	0.100	16
282324.BU	bottle <b>with thiosulfate</b> , individually wrapped	STERILE R	1,000	68	5.41	0.110	16
282330	bottle <b>without thiosulfate</b>	STERILE R	500	24	1.36	0.025	48
282331	bottle <b>without thiosulfate</b>	STERILE R	1,000	20	1.37	0.033	42
282333	bottle <b>without thiosulfate</b>	STERILE R	500	111	5.92	0.110	16
282334	bottle <b>without thiosulfate</b>	STERILE R	1,000	68	5.15	0.110	16

We can supply any other concentration according to each country's standards.  
For other volume bottles, please contact our sales department.  
Optionally presented in individual bags if requested.



Please ask for customized labels









## Screw thread microtubes

Made of **autoclavable** polypropylene, they can be used at extreme temperatures from **-190 °C to +121 °C**.

Two versions available: in transparent polypropylene, or opaque brown (**UV resistant**, designed to be used with light sensitive samples).

**Certified RNAse, DNAse and pyrogen free.**

Tubes and caps can be centrifuged at **17,000 xg**.

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	1.47	0.010
2	<b>409110.2</b>	1.5	yes	1,000	1.45	0.009
3	<b>409110.3</b>	1.5	no	1,000	1.42	0.009
4	<b>409110.4</b>	2.0	yes	1,000	1.30	0.010
<b>Brown polypropylene</b>						
5	<b>409113.1</b>	0.5	yes	1,000	1.54	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	1.43	0.009
8	<b>409113.4</b>	2	yes	1,000	1.34	0.009



## Caps for screw thread microtubes

Made of polypropylene.

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
<b>Transparent polypropylene</b>					
1	<b>409007.N</b>	cap with loop	1,000	0.41	0.003
2	<b>409008.N</b>	cap without loop	1,000	0.40	0.002
<b>Brown polypropylene</b>					
3	<b>409007.M</b>	brown cap with loop	1,000	0.45	0.003
4	<b>409008.M</b>	brown cap without loop	1,000	0.55	0.010
<b>Inserts</b>					
5	<b>409111R</b>	red insert	500	0.06	0.001



## Screw cap microtubes, with cap. Sterile

Tubes and caps in medical grade, transparent polypropylene.

The cap embodies a non-reactive ethylene-propylene o-ring.

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

Perfect for long term storage.

Withstand temperatures from **-190 °C**.

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

**DNAse, RNAse, DNA, and PCR inhibitors 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 R</b> ✗	50 x 50	5.90	0.030
<b>409115/2</b>	1.5 ml non skirted	<b>STERILE R</b> ✓	50 x 50	5.90	0.030
<b>409115/6</b>	2 ml skirted	<b>STERILE R</b> ✓	50 x 50	5.90	0.030
<b>409115/3</b>	2 ml non skirted	<b>STERILE R</b> ✓	50 x 50	5.90	0.030

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 °C**.  
**Certified RNase, DNase and PCR inhibitors free.**  
Products ideal for long term sample storage.  
Withstand centrifugation at **20,000 xg**. 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).  
Caps are supplied separately, see below.

mod.	code	description	graduation	case quantity	case weight	case volume
1	409111/4	0.5 ml skirted	✗	500	0.78	0.005
2	409111/2	1.5 ml	✓	500	0.61	0.005
3	409111/5	1.5 ml skirted	✗	500	0.73	0.005
4	409111/3	2.0 ml	✓	500	0.71	0.005
5	409111/6	2.0 ml skirted	✗	500	0.76	0.005
6	409111/7	2.0 ml skirted	✓	500	0.73	0.005

Caps for screw thread microtubes

Made of medical grade polypropylene.  
Feature an internal O-ring to ensure leakproof seal.  
Dimensions 13.0 x 6.0 mm.  
**Certified RNase, DNase and PCR inhibitors free.**

code	colour	case quantity	case weight	case volume
409112/0	natural	500	0.019	0.0009
409112/1	blue	500	0.019	0.0009
409112/2	green	500	0.019	0.0009
409112/4	red	500	0.019	0.0009
409112/6	yellow	500	0.019	0.0009

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 °C** to **121 °C**.  
Resistance to centrifugation: **17,000 xg**.  
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
- Forensic laboratories

mod.	code	volume ml	case quantity	case weight	case volume
1	409110.4T	2	1,000	2.06	0.013
2	409110.2T	1.5	1,000	2.06	0.013
3	409110.5T	1.5	1,000	0.65	0.013



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



## Human DNAsa, RNAsa and DNA free certified swabs, steriles



Human DNA free Certified. **Sterilised by ethylene oxyde.**

The swab is supplied in a polypropylene tube, which protects the sample up to the laboratory prior to its analysis.

The stick of the swab is made of polystyrene while the head is produced with viscose or polyester according to the code.

The tube is labeled indicating code, description, lot, expiry date and providing an identifying area to note down collection details (site, date, etc.).

Moreover, the label seals the tube with the cap of the swab, acting like a tamper evident system.

code	description	selling unit	case quantity	case weight	case volume
<b>300252DNA</b>	polystyrene + viscose	500	4 x 500	14.20	0.066
<b>300263DNA</b>	polystyrene + polyester	500	4 x 500	14.20	0.066

Expiry date: 48 months from sterilisation date



0.2 ml Real Time PCR tubes

Tubes made of polypropylene, featuring attached hinged caps. **Autoclacable.**  
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
4094.5N	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. **Autoclacable.**  
**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
4094.1N	natural	1,000	0.24	0.003
4094.1A	blue	1,000	0.24	0.003
4094.1R	red	1,000	0.24	0.003
4094.1AM	yellow	1,000	0.24	0.003

See minimum order and delivery time for other colors.



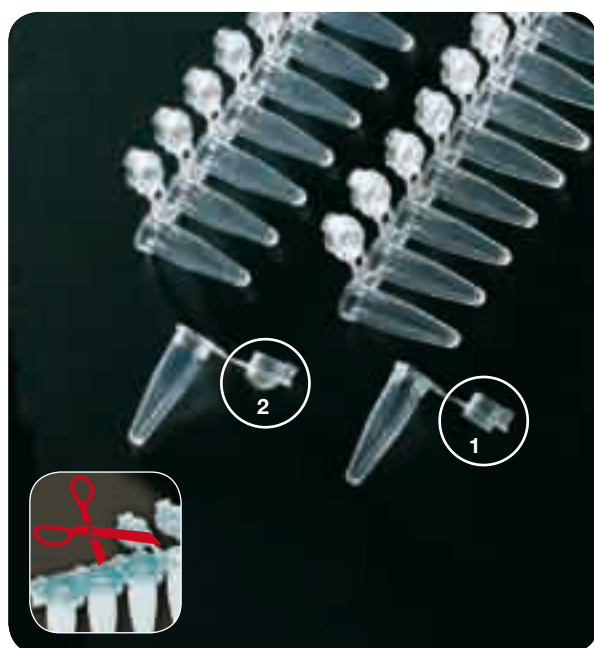
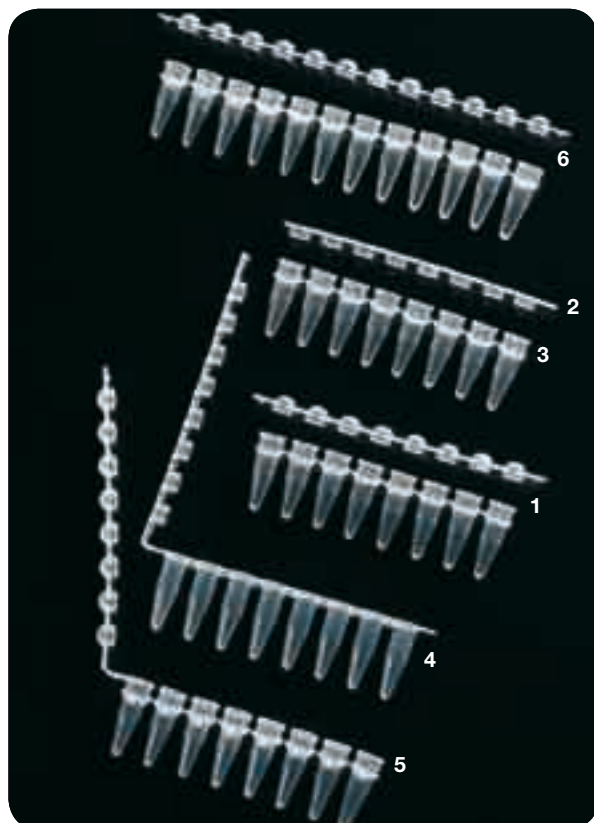
0.2 ml PCR tubes

Made of polypropylene. **Autoclacable.**  
Tubes with attached domed cap.  
Certified **RNAse, DNase and PCR inhibitors free.**

code	description	colour	case quantity	case weight	case volume
4095.9N	individual tube with cap	natural	1,000	0.25	0.003







## 0.2 ml PCR tubes in strips

Made of natural colour polypropylene. **Autoclavables.**

**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 **4095.7N** is also suitable for plates.

	code	description	case quantity	case weight	case volume
1	<b>4095.2N</b>	8 tube strip + 8 domed cap strip	125 strips	0.30	0.0036
2	<b>4095.7N</b>	strip of 8 flat caps	125 strips	0.07	0.0008
3	<b>4095.6N</b>	8 tube strip	125 strips	0.22	0.0028
4	<b>4095.1NP</b>	8 tube strip attached to 8 flat cap strips	125 strips	0.23	0.0036
5	<b>4095.1N</b>	8 tube strip attached to 8 domed cap strips	125 strips	0.23	0.0036
6	<b>4095.4N</b>	12 tube strip attached to 12 domed cap strips	80 strips	0.20	0.0028

Ask for another colours.



2, 3, 4

## 0.2 ml PCR tubes in strips

Tubes made of polypropylene, featuring attached hinged caps. **Autoclavables.**

Suitable for **Real Time PCR**.

See individual tubes on page 53 (**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
1	<b>4094.3N</b>	strip of 8 tubes and 8 attached caps	120 strips	0.27	0.0036
2	<b>4094.4N</b>	strip of 8 tubes and 8 attached caps <b>low profile</b>	120 strips	0.22	0.0028



## 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	<b>4096.2N</b>	flat cap	natural	125 strips	0.85	0.007
2	<b>4096.3N</b>	domed cap	natural	125 strips	0.85	0.007





## 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 **crosstalking among transparent wells may affect the real time quantification**. **Opaque white wells and tubes** have proved to avoid this well-to-well crosstalking, thus **ensuring an exact and reliable quantification**.

Opac wells also allows luminosity absorption.

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. **Autoclacable.**

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.

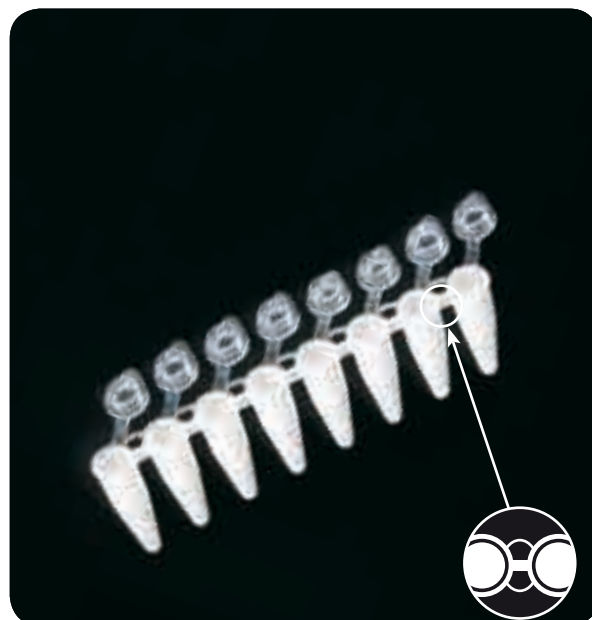
Opaque white tubes perform the highest performance in **Real Time PCR**, as they avoid crosstalking between wells.

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	0.27	0.004



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

Tubes made of polypropylene. **Autoclacable.**

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 crosstalking 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	0.004





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	0.38	0.005
4094.2AM	yellow	1,000	0.38	0.005
4094.2A	blue	1,000	0.38	0.005
4094.2R	red	1,000	0.38	0.005

- 1

- 2

- 3

DNase  
RNase  
FREE



Graduated 0.5 ml PCR tubes

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

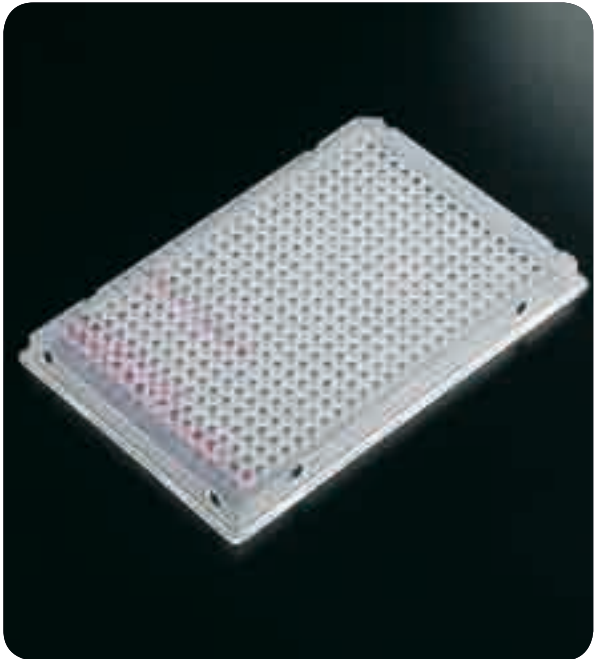
code	colour	case quantity	case weight	case volume
4095.5N	natural	1,000	0.46	0.005

- 1

- 2

- 3

DNase  
RNase  
FREE



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

Minimun order quantity: 10

DNase  
RNase  
FREE

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





PCR Plates – COMPATIBILITY CHART		900111	900110 unskirted	900122 semi skirt	900112 semi-skirt	900113B semi skirt	900123 skirted	900384 skirted	900098 unskirted	900095 white, skirted 900093 black, skirted
Well Shape										
Standard well. (Overall height approx. 21 mm, max. capacity approx. 350 µl)		●		●					●	
Low profile well. (Overall height approx. 16 mm, max. capacity approx. 200 µl)			●		●	●	●	50 µl		●
Corbett Research (Qiagen)	PalmCycler 96		●	●			●		●	●
	PalmCycler 384							●		
Eppendorf	Mastercycler	●	●	●			●			
	Mastercycler Gradient	●							●	●
	Mastercycler ep	●	●	●			●			
	Mastercycler M384							●		
"Real time" Thermal Cyclers	Mastercycler ep Realplex			●			●		●	●
Ericom	Power Block I	●	●							
	Deltacycler I	●	●	●					●	
	Deltacycler II	●	●						●	
	Single Block	●	●	●					●	
	Twin Block	●	●	●					●	
Esco	Swift	●		●				●		
Flexi	Gene	●		●			●	●		
	Genius	●		●			●			
G-Storm	GS1	●	●	●						
	GS4	●	●	●						
	GSX	●	●	●						
	GSXs	●	●	●						
MWG	Primus 96	●	●	●			●		●	●
	Primus 384							●		
	TheQ Lifecycler	●	●				●		●	●
Roche										
"Real Time" Cyclers	LightCycler 480					●				
Stratagene	Robocycler 96	●		●					●	●
	Gradient Cycler	●		●			●		●	●
	Robocycler Gradient	●	●	●			●			
"Real Time" Cyclers	Mx4000 and Mx3000	●	●						●	
	Mx3005P™	●		●			●		●	
TaKaRa	TP240						●			
	TP3000	●	●	●			●		●	●
Techne	Touchgene	●	●	●					●	●
	Cyclogene	●	●	●					●	●
	Genius	●	●	●					●	●
	Genius Quad	●	●	●					●	●
	Genius (TC412)	●	●	●			●		●	●
	Flexigene	●	●	●			●	●	●	●
	Touchgene X	●	●	●			●	●		
	Touchgene Gradient ITC512)	●	●	●			●	●	●	●
	"Real Time" Cyclers		●				●			●
	Quantica		●				●			●
Thermo Hybaid	PCR Sprint	●	●	●			●			
	MBS Satellite System	●	●	●			●	●	●	●
	Px2 and PxE	●	●	●			●	●	●	●
	PCR Express and Omni-E	●	●	●			●	●	●	●
	Touchdown	●	●	●			●	●	●	●
	Omnigene	●	●	●			●	●	●	●
Transgenomic										
Sequencers	WAVE System						●			●



## 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.

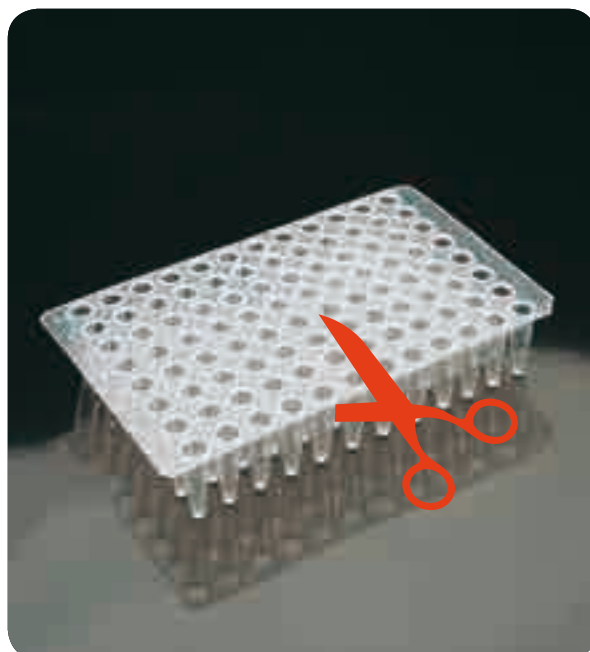
An alphanumeric grid helps sample identification, and to facilitate orientation, the bottom right corner of the plate is cut away.

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
<b>900098</b>	natural	10	0.22	0.0024



## 96-well low profile skirted PCR plate

Made of polypropylene. Each "low profile" well has a capacity of 200 µl. 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
<b>900123</b>	natural	10	0.30	0.003



## 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.

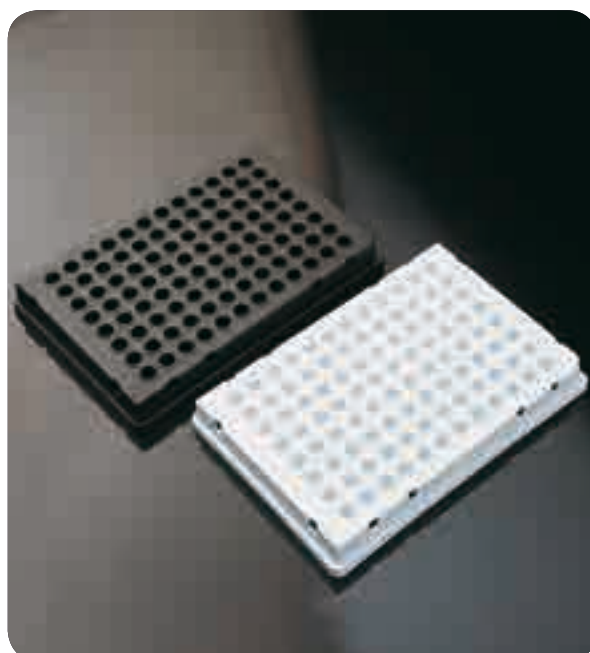
Code **900095**: White plate for luminescence (optical absorption) PCR.

Dimensions: 126 x 84 x 15 mm.

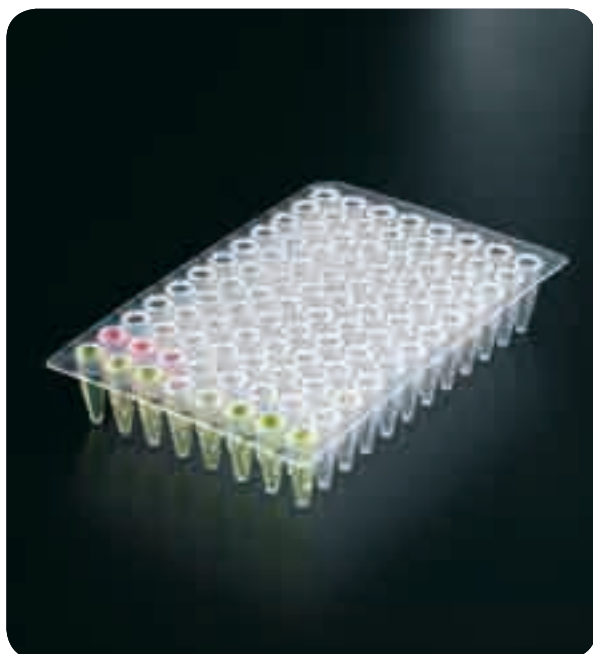
**Certified RNase and DNase free.**

Well plate volumen: 100 µl.

code	description	case quantity	case weight	case volume
<b>900093</b>	96 well black plate	5 x 10	1.35	0.010
<b>900095</b>	96 well white plate	5 x 10	1.35	0.010







## 96 well standard plate

Made of transparent polypropylene.

96 wells standard plate with a capacity of 350 µl 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.

A black printed alphanumeric grid helps sample identification.

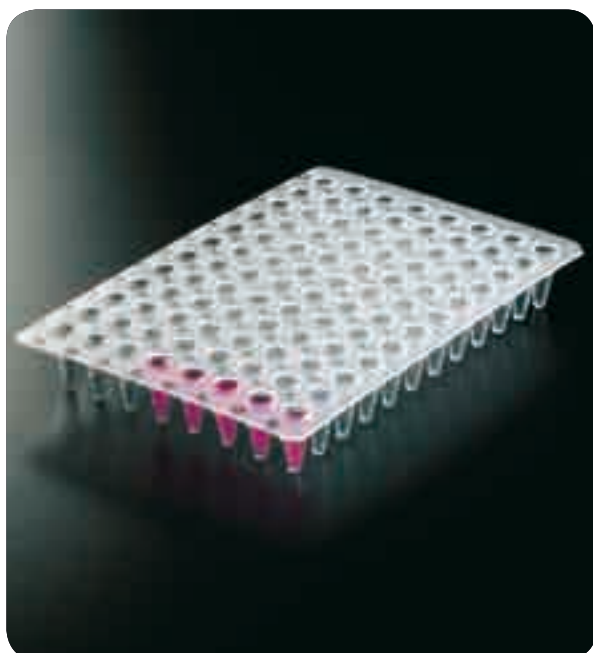
Orientation cut is at position A 12 (upper right).

**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
<b>900111</b>	natural	10 x 10	2.72	0.027



## 96-well low profile PCR plate

Made of transparent polypropylene.

Low profile well (15 mm high).

Perfect to work with samples of 100 µl 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).

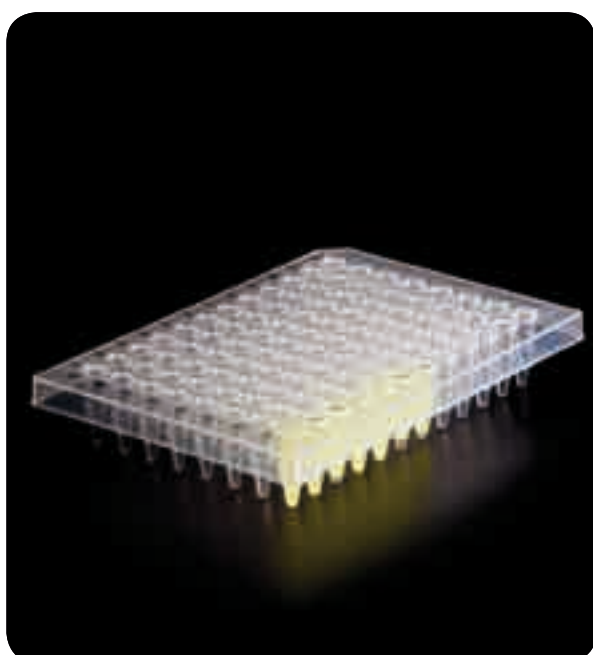
A printed alphanumeric grid helps sample identification.

**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
<b>900110</b>	low profile PCR plate	5 x 20	1.9	0.018



## 96 well semi-skirt plate

Made of transparent polypropylene.

This plate has a semi skirt ±7.5 mm high.

Each well has a capacity of 200 µl 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
<b>900122</b>	semi-skirt PCR plate	10	0.32	0.003





## 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 µl.

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
900113B	semi-skirt PCR plate	10 x 10	2.96	0.027

## 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 µl.

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
900112	semi-skirt PCR plate	10 x 10	2.96	0.027



## PCR sealing mat

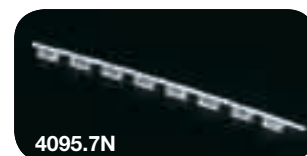
Manufactured from a non reactive rubber, this PCR sealing mat ensures a secure, leak free seal during the PCR cycling process.

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.

**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	0.012



See page 54



## Adhesive sealing film

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

Advantages:

1. Minimises the risk of contamination or reagent spillage during ELISA or PCR processes.
2. Minimises the risk of contamination from tube to tube and from plate to plate.
3. Prevents sample evaporation.

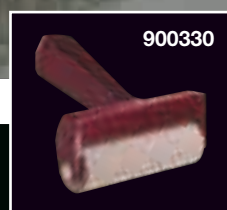
A 5 mm wide strip (opaque white) at the lateral edges of the film helps pull the film from its protective paper and prevents it sticking onto fingers. The film is thermostable and functional from **-70 °C to 95 °C** at 75% humidity.

**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	0.0005
<b>900301</b>	adhesive film suitable for QPCR	1 x 100	0.06	0.0004
<b>900330</b>	sealing roller	1	0.01	0.0001

NEW



## 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 **-80 °C to 120 °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.

**RNase, DNase and DNA free.**

code	description	case quantity	case weight	case volume
<b>900320</b>	aluminium foil	1 x 100	0.28	0.0003
<b>900330</b>	sealing roller	1	0.01	0.0001



## 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.

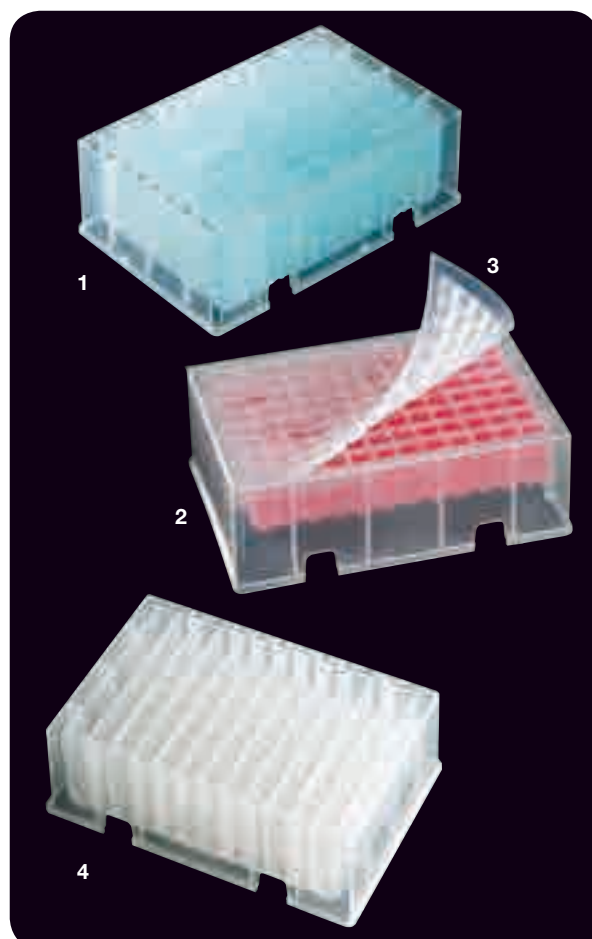
Code **900309** is a sealing mat manufactured from autoclavable silicone. Exclusive use with the square well plates (**900195** and **900196**).

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

Supplied in a bag of 5 units.

Code **900197** proves to be extremely convenient as a reservoir thanks to its 12 high volume channels. Supplied in a bag of 5 units.

mod.	code	description	case quantity	case weight	case volume
1	<b>900195</b>	96 well plate 2.2 ml	2 x 5	0,90	0.007
2	<b>900196</b>	96 well plate 1.1 ml	2 x 5	0.90	0.010
3	<b>900309</b>	sealing mat for 96 squared wells	1 x 5	0.16	0.001
4	<b>900197</b>	12 channel plate 22 ml	1 x 5	0.46	0.005



## 96 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	1.41	0.009



## 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 **6000 xg**.

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>	96 deep well plate, natural colour	4	0.47	0.002
<b>900306</b>	sealing mat	24	3.60	0.002







## 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
<b>409009</b>	rack with 96 tubes (8 x 12)	10	1.63	0.010
<b>409010</b>	strips of 8 tubes each	125 strips	0.27	0.007
<b>409011</b>	strips of 8 caps each	125 strips	0.11	0.012
<b>409012</b>	loose tubes	1,000	0.63	0.005

## 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. Robotics suitable version (**RC845TP**). **Autoclavable** and stackable, it resists up to **-100 °C**, and embodies a moulded alphanumeric identification.

Rack, lid and tubes made of polypropylene. Caps made of low density polyethylene.

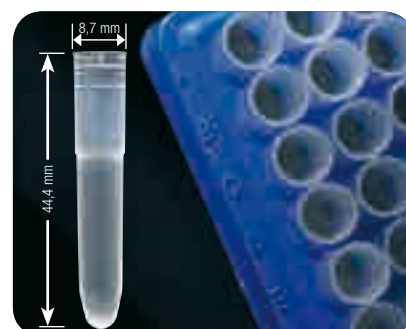
Caps are sold apart in strips of eight units; every cap has a tag to make an easy opening and closing.

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

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

**DNase, RNase free.**

mod.	code	description	case quantity	case weight	case volume
1	<b>409008</b>	rack with 96 tubes (8 x 12)	10	1.40	0.007
<b>NEW</b> 2	<b>RC845TP</b>	rack with 96 tubes for robotics	10	1.14	0.010
	<b>409005</b>	strips of 8 caps each	120 strips	0.16	0.002
	<b>409008.1</b>	tubes in bulk	1,000	0.60	0.004







## 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.

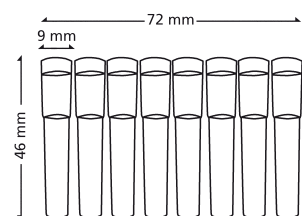
The top left edge of the lid is cut for an exact orientation.

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
<b>409004</b>	rack with 96 tubes (8 x 12)	10	1.80	0.009
<b>408002</b>	tubes of 8 caps each	120 strips	0.73	0.005
<b>408005</b>	strips of 8 caps each	120 strips	0.09	0.001
<b>408003</b>	loose tubes	5 x 960	3.88	0.028



## Storage rack with 2 ml tubes

Compatible with most robotic Workstation, this polypropylene storage rack can be used with most cell harvesters and multichannel pipettors.

It contains 96 removable polypropylene square tubes in a 8 x 12 configuration, each having a 2.1 ml capacity.

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
<b>418003</b>	96 well storage rack with tubes	10	1.81	0.012







### Expiry date our tubes, anticoagulants and other

• Serum tubes (granules and gel):.....	24 months
• Serotub with granules and preservative:: .....	12 months
• Lithium heparin::.....	24 months
• Iodoacetate heparin:.....	13 months
• Edta: .....	24 months
• Citrate for coagulation: .....	15 months
• Anticoagulants in containers: .....	24 months
• Thrombocyte count and osmotic brittleness: .....	24 months
• Reticulocyte vital staining:.....	24 months

### 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:

- Directive **98/79/EC** "In vitro" diagnostic medical devices.
- **ISO 6710** Single use containers for blood collection
- **UNE-EN ISO 14971** for the Risks Management of Sanitary Products
- **UNE-EN ISO 15223-1** Labelling symbols
- **UNE-EN ISO 13485**, medical devices - quality management systems

### 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 (**weight scale accuracy and flame photometer**)
- Watertightness control (**vacuum**)
- Resistance control (**centrifugation**)

Each case includes a brochure with recommendations of use.



### Silicone tourniquet

0.8 thick and 19 mm wide. Non toxic, USP, Class VI, silicone.

**Autoclavable.**

code	description	quantity	weight	volume
<b>GS-01</b>	roll of 50 meters	1 x 50	0.89	0.003
<b>GS-02</b>	box with 10 bands 0.5 m long each	1	0.11	0.001



## Glucose solution for oral administration

Glucose solutions for oral administration, intended for testing diagnostic tests related to glucose metabolism.

For diagnostic: Test of Glucose Tolerance in the evaluation of mellitus diabetes and related diseases.

Glucose solutions are ready for use, and they are specially designed as a safe and economical product that allows overhead standardize testing in studies of glucose metabolism.

Its formulation and organoleptic characteristics (pleasant orange or lemon flavor) gives them an excellent acceptance and tolerance by the patient ingesting even fasting, avoiding the frequent cases of vomiting caused by conventional preparations.

code	presentation	case quantity	case weight	case volume
<b>986517</b>	Glucorange 75/200	48	13,40	0,029
<b>986524</b>	Gluculemon 75/200	48	13,40	0,029

## Serum glucose serotub

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 iodine is photosensitive.

Keep these tubes at a room temperature.

Supplied in plastic racks.

code	description	case quantity	case weight	case volume	pallet quantity
<b>600602</b>	13 x 75 for 4 ml blood	12 x 100	4,92	0.033	42

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



## Citrate for coagulation

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. Buffered to pH.

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	pallet quantity
<b>601102</b>	buffered to 3.8%	13 x 75 round for 4 ml blood	12 x 100	5.30	0.033	42
<b>601103</b>	buffered to 3.8%	13 x 75 round for 2.5 ml blood	12 x 100	5.30	0.033	42
<b>601203</b>	buffered to 3.2%	13 x 75 round for 2.5 ml blood	12 x 100	5.30	0.033	42







## Serum tubes with clot accelerator and gel serum separator

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.

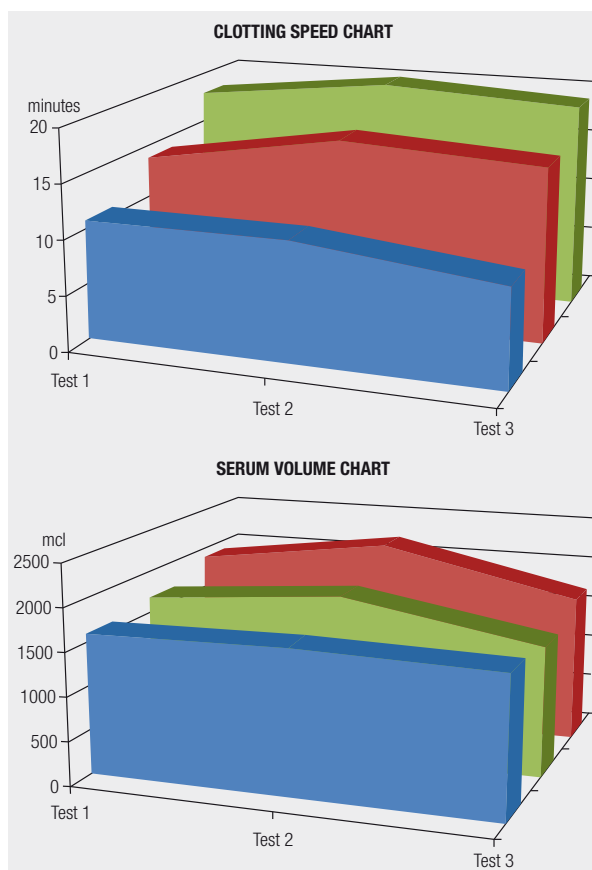
**On the label of each tube the lot number, expiry date and volume are printed.**

Supplied in plastic racks.

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

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
600801	13 x 75 round for 4 ml	12 x 100	5.40	0.030	48
600800	16 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 15 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

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.

Allows the obtention of serum in 12 min.

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.**

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
<b>600400</b>	13 x 75 round for 4 ml	2 x 1,000	7.90	0.045	32
<b>600300</b>	16 x 100 round for 9 ml	2 x 500	6.10	0.045	32
<b>707094*</b>	bottle of 750 g with separator granules	20	17.50	0.045	40

\* Product without **CE** mark

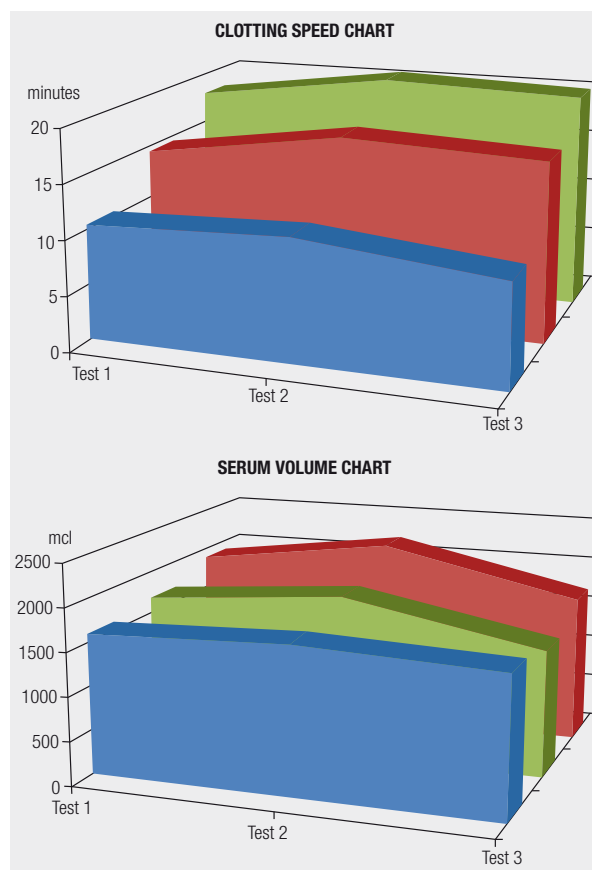


## Serum tubes with clot accelerator and granules

**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



### Lithium heparin tubes

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.

Type of coagulant: **spray**.

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
<b>601802</b>	13 x 75 round for 4 ml blood	12 x 100	4.10	0.033	42
<b>601803</b>	13 x 75 round for 2.5 ml blood	12 x 100	4.10	0.033	42
<b>601810</b>	16 x 100 round for 10 ml blood	6 x 120	4.46	0.038	30



### Iodoacetate lithium + heparin lithium tubes

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 4 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 iodum is photosensitive.

Supplied in plastic racks.

Type of coagulant: **liquid**.

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
<b>602002</b>	13 x 75 round for 4 ml blood	12 x 100	4.40	0.033	42
<b>602003</b>	13 x 75 round for 2.5 ml blood	12 x 100	4.30	0.033	42

## Edta: tripotassium



Made of clear polypropylene, supplied capped and labeled.

Tetraceticetilendiamin 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. Type of coagulant: **spray**.

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
<b>601613</b>	15 x 50 flat for 2.5 ml blood	10 x 120	4.50	0.035	36
<b>601603</b>	13 x 75 round for 2.5 ml blood	12 x 100	4.10	0.033	42
<b>601702</b>	13 x 75 round for 4 ml blood	12 x 100	4.14	0.033	42



## Edta: tripotassium. Rubber cap



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.

Type of coagulant: **liquid**.

Expiry time in 24 months.

	code	description	case quantity	case weight	case volume	pallet quantity
1	<b>611604</b>	13 x 80 for 3 ml blood	8 x 100	3.00	0.030	50
2	<b>611603</b>	13 x 75 for 3 ml blood	20 x 50	4,43	0,034	36



## Blood-plasma. Edta tubes: dipotassium



Made of clear polypropylene, supplied capped and labelled.

Tetraaceticetilendiamin 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.

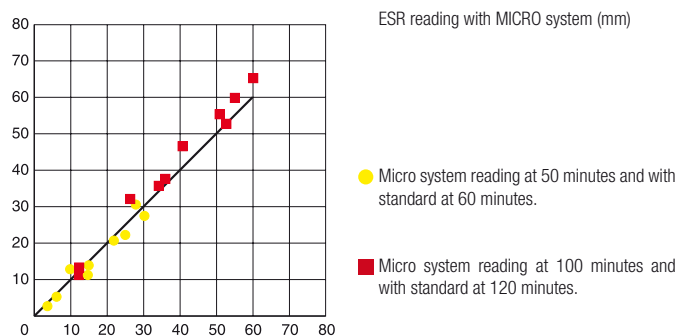
**A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.** Supplied in plastic racks. Type of coagulant: **spray**. Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
<b>601402</b>	13 x 75 round for 4 ml blood	12 x 100	4.10	0.033	42
<b>601403</b>	13 x 75 round for 2.5 ml blood	12 x 100	3.90	0.033	42
<b>601412</b>	15 x 50 flat for 4 ml blood	10 x 120	4.98	0.033	36
<b>601413</b>	15 x 50 flat for 2.5 ml blood	10 x 120	4.26	0.033	36





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



### E.S.R. citrate tube

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. Expiry time in 15 months.

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	4.87	0.033

Pallet quantity: 42 cases.

### Sedirate micro system

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. 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). Expiry time in 12 months.

code	description	case quantity	case weight	case volume
27	set pipette + tube	400	3.28	0.029



## E.S.R. semi micro system TAKIVES with self-levelling system

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.

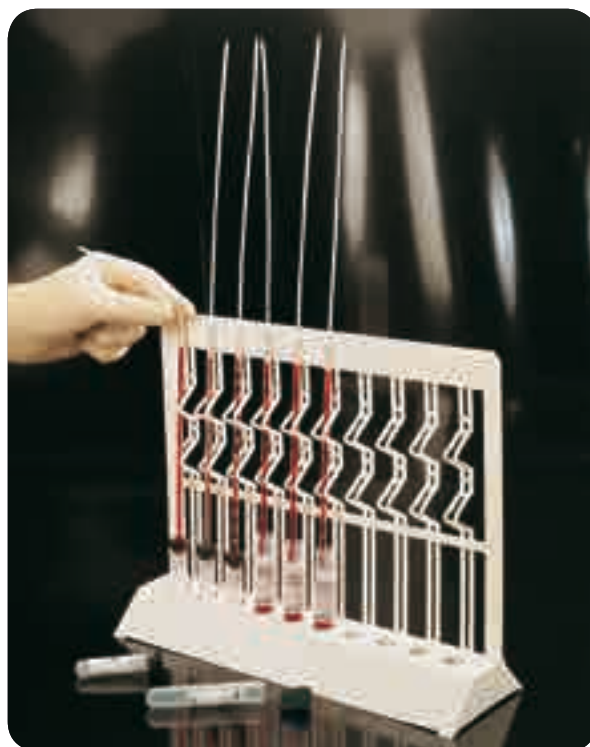
Two tubes available, both made of high transparency polypropylene:

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. Expiry time in 15 months.

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. Expiry time in 15 months.

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	0.020
<b>601006</b>	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	4.87	0.033
<b>1164</b>	tube 12 x 55 mm with citrate with pierceable cap	10 x 100	3.02	0.020

\* Product without **CE** mark



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

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.

Expiry time in 15 months.

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	2.60	0.027
<b>601006</b>	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	4.87	0.033



## E.S.R. system, EUROTUBO®

The E.S.R. system consists of a holder and a set of pipettes with a polyethylene filter.

Pipettes may be filled using an automatic suction pump, a pipetting bulb or pump, or a hand hold pippeter (both manual or electronic).

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.

The code **601006** has a expiry time in 15 months.

code	description	case quantity	case weight	case volume
<b>1361*</b>	holder to 10 places	5	3.20	0.020
<b>601006</b>	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	4.87	0.033

\* Product without **CE** mark





### Mailing container

Mailing container with safety screw blue cap, both manufactured in polyethylene. Leak proof.  
Dimensions uncapped 117 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.  
External mouth diameter 24,5 mm, internal: 21 mm.

code	description	case quantity	case weight	case volume
401301	mailing container	500	7.70	0.090
401302	screw cap	500	1.90	0.095



### 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	25 x 10	3.70	0.014



## 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

code	type	description	expiration months	case quantity	case weight	case volume
620400	serum separator	13 x 80 with granules for 4 ml	36	8 x 100	3.20	0.030
621611	edta tripotassium	16 x 55 skirted for 2.0 ml	24	10 x 100	3.50	0.034
621613	edta tripotassium	13 x 80 for 2.5 ml	24	8 x 100	2.98	0.031
621102	citrate for coagulation	12 x 70 for 2 ml	15	8 x 100	2.40	0.030

Pallet quantity: 50 cases.



### Special pediatrics

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	0.023
621610	edta tripotassium	12 x 55 for 1 ml	18	10 x 100	2.82	0.024
621101	citrate for coagulation	12 x 55 for 1 ml	15	10 x 100	2.84	0.024

Pallet quantity: 50 cases.



See speed sedimentation citrate for pediatrics in the page 74



## Centrifugation guidelines

PROBLEM		POSSIBLE CAUSES	REASON FOR MISUSE	SOLUTION
The barrier is not clearly defined	Poor or incomplete serum separation. Barrier is intact and well defined	Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant	The tube was not inverted for 5 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 xg-setting under appropriate value	The tube was not centrifuged at or above the minimum, appropriate xg-setting	a) Set the centrifuge between 1,000-1,500 xg b) Confirm centrifuge is correctly calibrated
	Barrier is skewed and poorly formed, separation is incomplete	Less centrifugation time than recommended	The tube was not centrifuged for the required time	Centrifuge the tube at the appropriate xg-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 °C and 26 °C (around 77 °F). b) Thermally insulate the tube and avoid contact with the centrifuge and centrifuge rotor
Blood tubes fracture during centrifugation		xg-force centrifugation exceeded the tube construction	The tube was subjected to xg-forces exceeding 1,500 xg	Maintain centrifuge at or below 1,500 xg
		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
Cell clumps observed within the separation barrier		Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant	The tube was not inverted for 5 times	Invert the tube for 5 times
		Insufficient time before centrifugation	The recommended 30 min standing time for coagulation was not observed	Wait for 30 minutes before centrifugation
		Excessive xg-force centrifugation	The tube was centrifuged at above 1,500 xg	Set the centrifuge at a speed below 1,500 xg
Presence of fibrin in serum		Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant	The tube was not inverted for 5 times	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 minutes before centrifugation
Abnormal assay results		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 xg-force centrifugation	The tube was centrifuged above 1,500 xg	Set the centrifuge to a maximum of 1,500 xg xg-force

## Anticoagulants and preservatives in containers

Available in bottles of 15 ml.

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

Both products have preservatives for stability.

Code **705000** composition: lithium heparin, phenylmercury acetate and distilled water. Prepared according ISO 6710. Heparin concentration between 12 and 30 µl for each ml of blood.

Expiry date in 24 months.

code	description	case quantity
<b>705000</b>	lithium heparin 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
<b>800000</b>	thrombocyte counting kit 1 x 50 tubes	30 kits	5.50	0.045
<b>802000</b>	osmotic brittleness of erythrocytes kit 2 x 12 plus 2 lithium heparine tubes	30 kits	7.50	0.045

Minimum order quantity: 1 kit.



## Reticulocyte staining kit

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 polyethylene.

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
















Minimum order quantity: 1 kit.







## Haematological stains

code	description		case quantity	case weight	case volume
<b>808000</b>	Eosin, solution, May Grunwald, 250 ml bottle Danger symbols: H225, H331, H311, H301, H370	  	16	4.80	0.015
<b>808001</b>	Eosin, solution, May Grunwald, 1000 ml bottle Danger symbols: H225, H331, H311, H301, H370	  	12	13.00	0.045
<b>808100</b>	Eosin, solution modified Giemsa, 250 ml bottle Danger symbols: H225, H331, H311, H301, H370	  	16	5.15	0.015
<b>808101</b>	Eosin, solution modified Giemsa, 1000 ml bottle Danger symbols: H225, H331, H311, H301, H370	  	12	13.00	0.045
<b>808200</b>	Eosin, solution Wright, 250 ml bottle Danger symbols: H225, H331, H311, H301, H370	  	16	4.43	0.015
<b>805013</b>	fast stain for blood extensions, 250 ml containers, <b>Kit</b> with 2 containers A and 2 containers stain B		12 Kits	14.95	0.045



Please see more information (page 99 about these stains at Chapter 4. **Histology, Microscopy and Staining.**



## Microhaematocrit capillary tubes

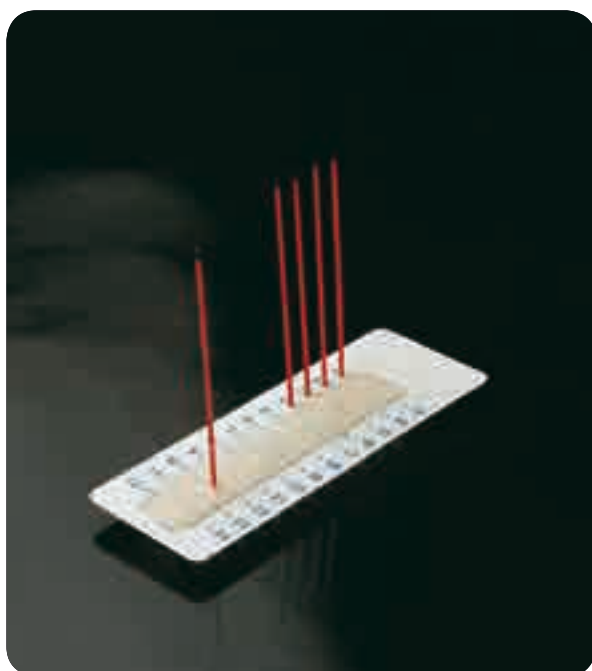
Soda neutral glass tubes with a colour-coded print for an easier identification, with sodium heparin (red) or without heparin (blue).

Supplied inside a glass tube with a plastic cap, specifying code, lot and expiry date.

Two lengths available: 70 or 75 mm ( $\pm 0,5$  mm).

They meet ISO 12772.

code	description	external diameter	volume $\mu$ l	case quantity	case weight	case volume
<b>7301</b>	75 mm with heparin	1.4-1.7	75	10 x 100	0.36	0.0006
<b>7311</b>	75 mm without heparin	1.4-1.7	75	10 x 100	0.36	0.0006
<b>7401</b>	70 mm with heparin	1.5-1.6	70	10 x 100	0.36	0.0006
<b>7411</b>	70 mm without heparin	1.5-1.6	70	10 x 100	0.36	0.0006



## 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	0.07	0.0002

## 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  $\pm 1\%$ .

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.

**Dimensions:** 12.55 x 12.65 x 44.55 mm ( $\pm 0,1$  mm).

Light path: 10 mm.

### Standard cuvettes

Made of polystyrene for assays in the visible spectral range (340 to 800).

code	description	case quantity	case weight	case volume
1 <b>302000</b>	4.5 ml macro	5 x 100	1.60	0.020
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	1.40	0.018

### 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.

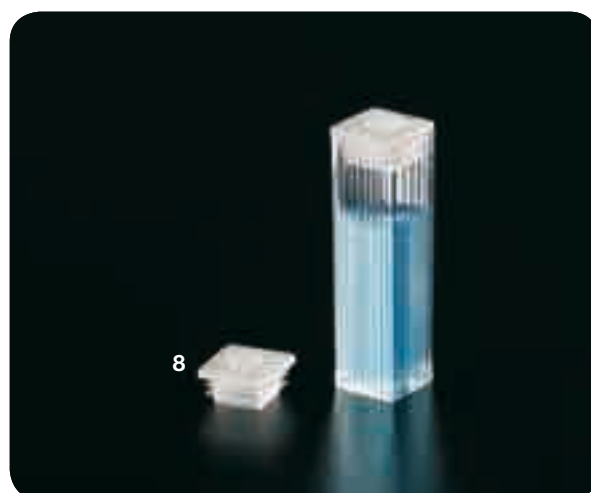
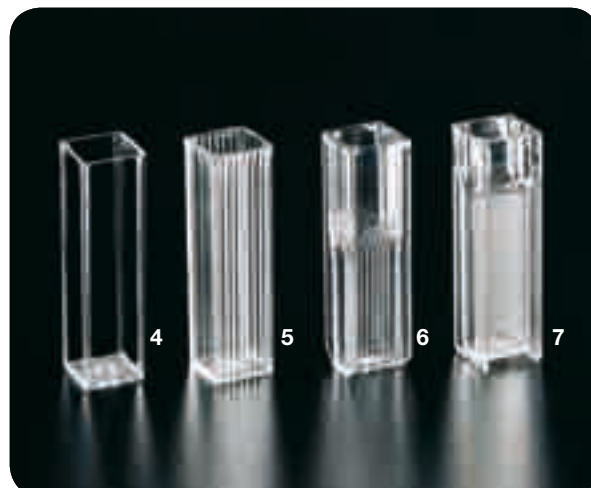
code	description	case quantity	case weight	case volume
4 <b>303100</b>	4.5 ml 4 sides transparent	5 x 100	1.60	0.018
5 <b>303102</b>	4.5 ml macro	5 x 100	1.60	0.018
6 <b>303101</b>	2.5 ml semimicro	5 x 100	1.65	0.015
7 <b>303103</b>	1.5 ml micro	5 x 100	1.82	0.019

### Cap

In polyethylene.

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

code	description	case quantity	case weight	case volume
8 <b>304000</b>	polyethylene cap	1,000	0.20	0.002



Please see our rack for the spectrophotometer cuvettes, code **M-100**, on Chapter 9. **Sample Storage.**



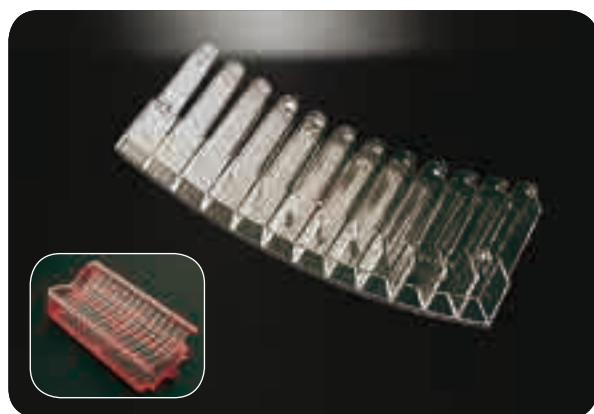
- Polypropylene
- **Autoclavable**
- Assembling rack that saves space
- Capability: 42 cuvettes



## Sample cups

Polystyrene cups, with polyethylene caps.

mod.	code	description	type	Ø ext. mm	h mm	case quantity	case weight	case volume
1	<b>900024</b>	0.50 ml	Gemsaec, Kone Lab 20	13.55	24.50	10 x 1,000	13.82	0.066
2	<b>900023</b>	0.25 ml	Centrifichem	13.70	16.40	14 x 1,000	15.00	0.070
3	<b>900022</b>	1.50 ml	Technicon	13.80	22.60	10 x 1,000	10.60	0.067
4	<b>192503</b>	1.50 ml	Technicon RA 1000	13.90	24.70	12 x 1,000	10.46	0.060
5	<b>910022</b>	2.00 ml	Technicon	13.75	24.90	10 x 1,000	10.92	0.068
6	<b>900026</b>	push on cap suitable, for all models	—	16.00	8.50	20 x 1,000	3.50	0.064



## 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
<b>900019</b>	complete rack: 15 segments of 12 cuvettes	30	9.00	0.041



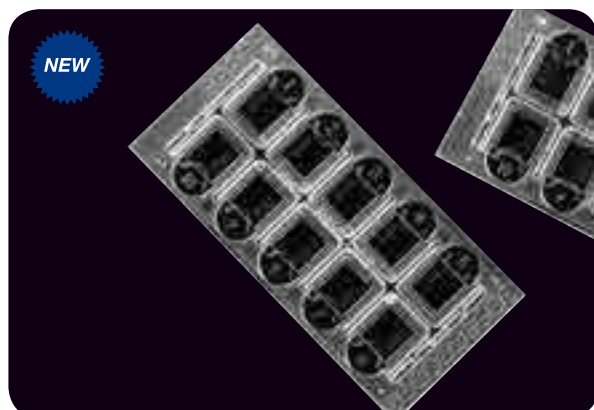
## Coulter counter cups

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

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
<b>200103</b>	coulter counter cup with lid	1,000	7.80	0.090
<b>200102</b>	coulter counter cup without lid	1,400	8.85	0.120



## "Fast read" plate for urinary sediment cell count

Disposable plate for determining µL cells in the sample.

Using this system a smaller number of epithelial cells present in each field can be achieved, reducing the possibility of overlap with other cells. Ensures a more careful and precise result, providing technical staff to determine presence of cellular elements.

code	description	case quantity	case weight	case volume
<b>141746</b>	fast read plate for urinary sediment cell count	100	0,30	0,0008





## 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	0.098
2	<b>900020</b>	2.50 ml	Hitachi	16.75	38.0	6 x 1,000	11.01	0.071
3	<b>900008</b>	0.70 ml	Cobas bio	7.65	35.5	12 x 1,000	8.40	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)	Sysmex	10 / 7.5 (± 0.2)	30	10 x 2,000	11.02	0.061

\* 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	0.041



## Beakers for cell counters

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

Both models are made of polyethylene.

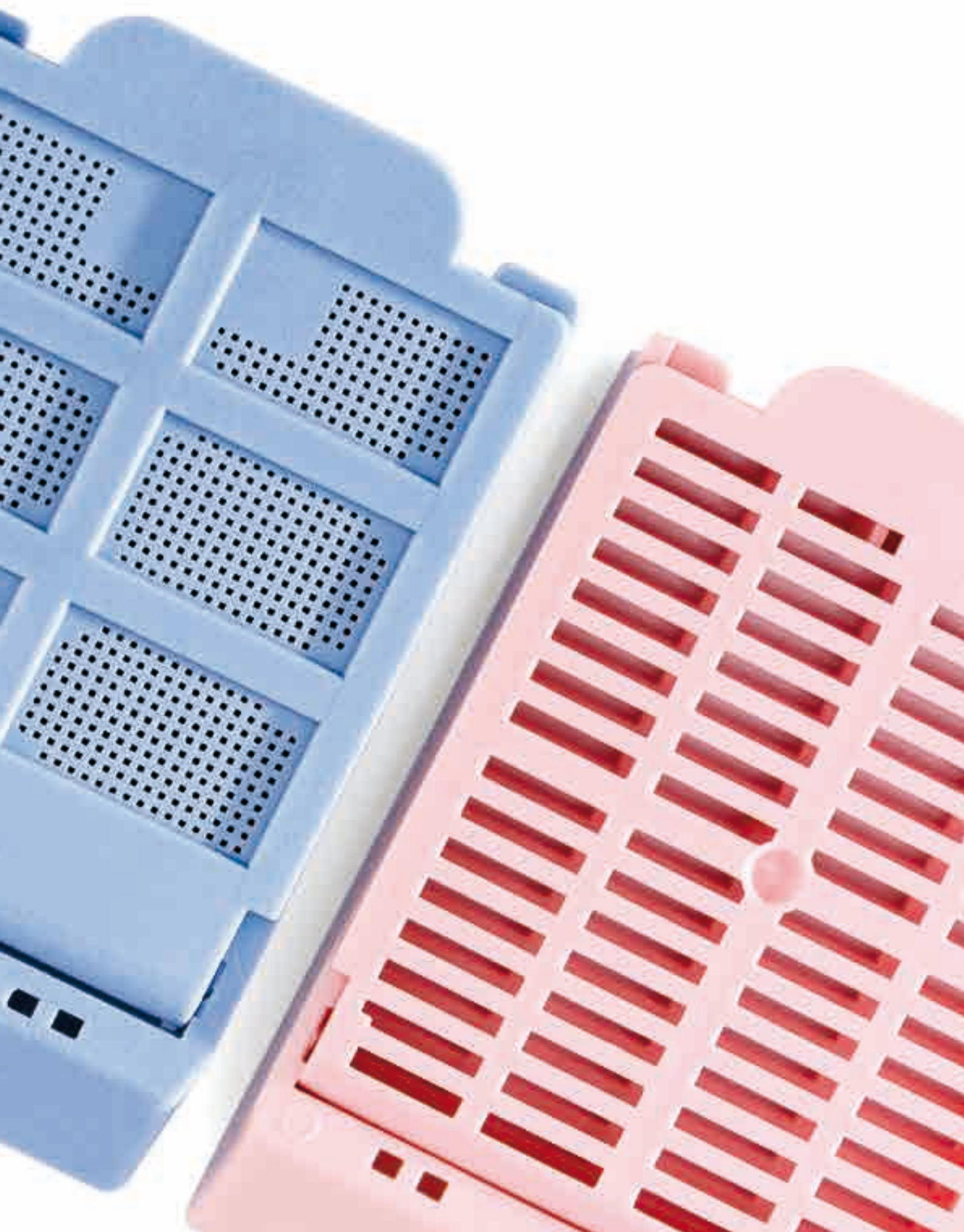
code	baker type	Ø mouth mm	Ø base mm	h mm	vol. ml.	case quantity	case weight	case volume
<b>1988314</b>	Toa	30.5	25	68.6	30	3,000	6.54	0.054
<b>1988315</b>	Royco-Hycl	30.5	26	57.5	25	3,000	6.50	0.045













## 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	alimentary use	case quantity	case weight	case volume
<b>202811</b>	30	25	32	53		100	1.00	0.011
<b>202810</b>	60	38	52	48		200	3.90	0.045
<b>202808</b>	90	51	60	51	✓	150	3.90	0.045
<b>202809</b>	125	51	60	62	✓	200	6.00	0.082
<b>202801</b>	170	51	60	80		160	6.46	0.082
<b>202802</b>	250	54	67	100	✓	125	4.85	0.078
<b>202814</b>	400	60	74	124		130	8.00	0.140
<b>202803</b>	500	67	80	131	✓	120	7.70	0.140
<b>202821</b>	500	86	103	93	✓	95	8.44	0.140
<b>202813</b>	750	86	103	127	✓	75	4.56	0.152
<b>202818</b>	1,000	86	103	157	✓	50	5.43	0.140

See more capacities on pages 280-281



## Jars with lid

Body and lid in white **autoclavable** polypropylene.

Self sealing security lid.

Made with materials suitable for alimentary use.

Code **241014** embodies a plastic handle.

Jars are supplied uncapped.

code	nominal capacity ml	Ø int. mouth x Ø base x height mm	weight g	case quantity	case weight	case volume	casses per pallet
<b>241010</b>	250	84 x 79 x 61	13	150	3.04	0.042	32
<b>241011</b>	550	107 x 98 x 79	24	250	5.01	0.103	16
<b>241013</b>	1,000	107 x 94 x 144	36	150	7.31	0.082	20
<b>241014</b>	1,560	135 x 118 x 138	48	150	4.42	0.130	16



## Tamper evident, buckets with lid

Disposable containers made of **autoclavable** polypropylene.

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. Made with materials suitable for alimentary use.

code	capacity l	Ø int. mouth mm	height mm	body weight g	case quantity	case weight	case volume	casses per pallet
<b>222802</b>	3	184.00	138.00	105.00	80	9.00	0.140	16
<b>222803</b>	4.5	210.00	156.00	134.00	48	10.46	0.130	16
<b>222804</b>	5.6	211.00	194.00	152.00	45	10.79	0.140	16
<b>222805</b>	10.6	251.00	263.00	314.00	20	8.39	0.140	16





## EUROTUBO® Leak proof screw cap containers



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. 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	cases per pallet
1	<b>202845</b>	250	89	57	100	4.67	0.046	32
2	<b>202846</b>	500	90	110	200	10.80	0.082	20
3	<b>202847</b>	1,000	111	139	100	10.97	0.096	16

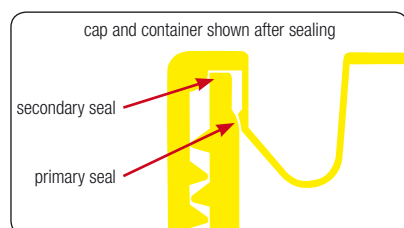
## Security screw cap containers

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 7. **Sample containers**





## Paraffin

It has a low dimethylsulphoxide (DMSO) 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
<b>440139</b>	Paraplast Plus® - 1 kg bag	8 bags	8.50	0.023



## Histology mould

Single use clear polypropylene mould.

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
<b>1</b>	<b>440131</b>	15 x 15 x 5	1,000	2.20	0.013
<b>2</b>	<b>440132</b>	24 x 24 x 5	1,000	2.20	0.013



## Metal tray histology

Material: stainless steel.

External dimensions: 52 x 35 x 11 mm.

mod.	code	well dimensions mm	bag quantity	bag weight	bag volume
<b>1</b>	<b>192931</b>	7 x 7 x 7	10	0.09	0.0002
<b>2</b>	<b>192932</b>	15 x 15 x 7	10	0.09	0.0002
<b>-</b>	<b>192933</b>	24 x 24 x 7	10	0.09	0.0002
<b>3</b>	<b>192934</b>	30 x 24 x 7	10	0.09	0.0002
<b>4</b>	<b>192935</b>	37 x 24 x 7	10	0.09	0.0002



## Tissue embedding sponge

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

Fits standard cassettes.

Avoids sample loss through drain holes when sample is processed.

Does not affect paraffin drainage.

code	dimensions mm	colour	case quantity	case weight	case volume
<b>192922.04</b>	32 x 26 x 3	blue	500	0.08	0.003

## 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	0.23	0.0006
<b>19501</b>	145	5	0.05	0.0001
<b>19503</b>	250	5	0.17	0.0043



## Cassettes without lid

Made of polyacetylene.

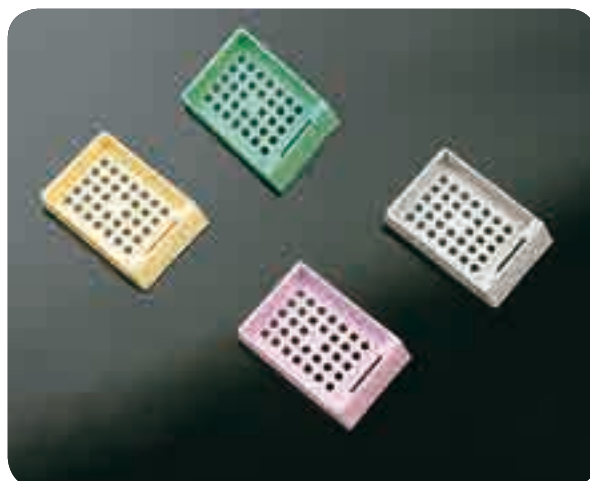
With 34 round holes of 2 mm Ø.

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	0.047
<b>440147</b>	green	3 x 1,000	7.00	0.047
<b>440144</b>	pink	3 x 1,000	7.00	0.047
<b>440143</b>	yellow	3 x 1,000	7.00	0.047



## 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	0.07	0.0006



## Cassette for biopsy 6 compartments

Material: polyacetylene.

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

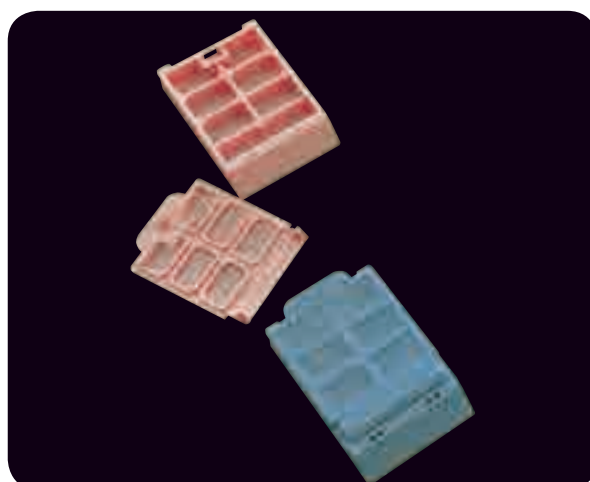
Each cell is 7 x 12 mm. The lid allows multiple opening and closing.

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>44245</b>	blue	4 x 250	5.20	0.026

Ask for minimum quantity and delivery time of other colours.

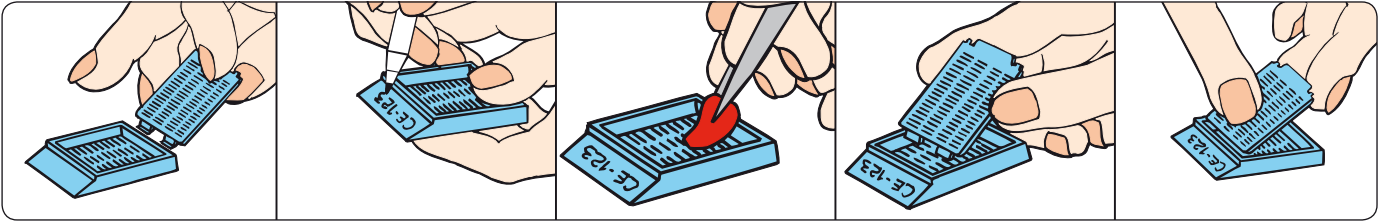




# CASSETTES HISTOSETTE I

- 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°.  
64 cuts (1 x 5 mm) in base and lid, distributed 16 x 4.

code	colour	case quantity	case weight	case volume
454141	white	3 x 500	5,40	0,039
454147	green	3 x 500	5,40	0,039
454140	pink	3 x 500	5,40	0,039
454143	yellow	3 x 500	5,40	0,039
454148	blue	3 x 500	5,40	0,039

Ask for minimum quantity and delivery time for other colours.



### Cassettes for biopsy. Histosette I

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

code	colour	case quantity	case weight	case volume
554111	white	3 x 500	6.35	0.034

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	7.90	0.064
554147	green	4 x 500	7.58	0.064
554140	pink	4 x 500	7.58	0.064
554143	yellow	4 x 500	7.58	0.064
554148	blue	4 x 500	7.58	0.064

Ask for minimum quantity and delivery time for other colours.

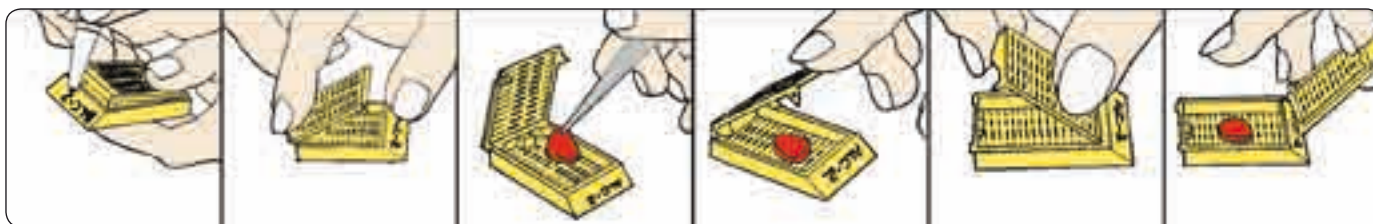
## CASSETTES HISTOSETTE II

- 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
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#### Cassettes with the lid pre-mounted:

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*	3.56	0.025
441141	white	2 x 500*	3.56	0.025
441143	yellow	2 x 500*	3.56	0.025
441145	blue	2 x 500*	3.56	0.025

\*2 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
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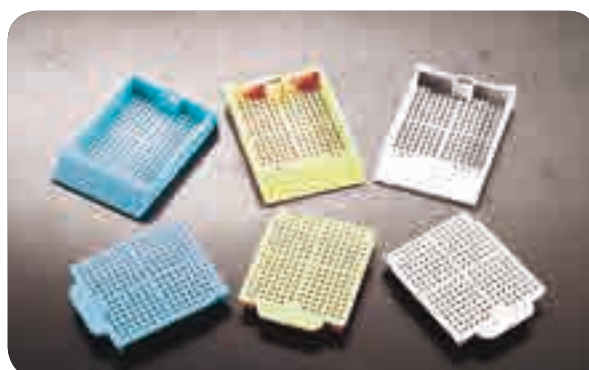
#### Cassettes with the lid pre-mounted:

445140	pink	3 x 500	5.20	0.026
445141	white	3 x 500	5.20	0.020
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:

451241	white	2 x 500*	3.92	0.025
451243	yellow	2 x 500*	3.90	0.026
451245	blue	2 x 500*	3.90	0.026

\*2 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.**
- **Two versions available: single cassettes and in stacks for Leica® and Sakura® labeling instruments.**



### Cassettes for tissue. Slimsette

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

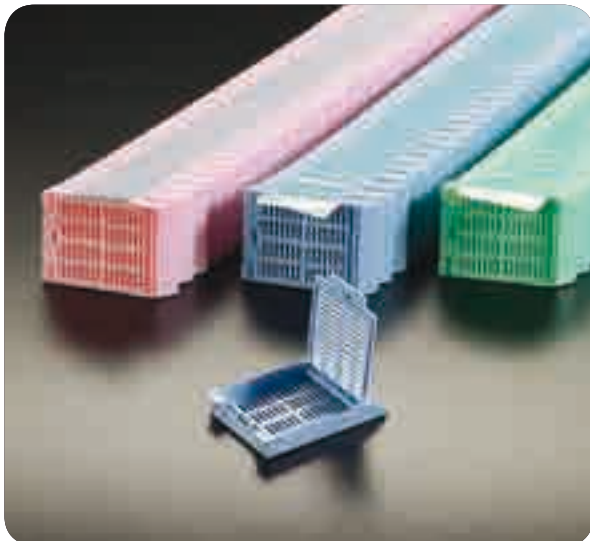
code	colour	case quantity	case weight	case volume
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#### Single cassettes

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

555141	white	3 x 500	5.01	0.025
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Ask for minimum quantity and delivery time for other colours.



code	colour	case quantity	case weight	case volume
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#### Stacks for Leica® and Sakura®

(Each case contains 50 stacks of 40 cassettes)

555251	white	50 x 40	7.12	0.023
555257	green	50 x 40	7.12	0.023
555258	blue	50 x 40	7.12	0.023

Ask for minimum quantity and delivery time for other colours.



code	colour	case quantity	case weight	case volume
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#### Stacks for Leica® and Sakura®

(Each 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
44355	blue	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
<b>415141</b>	white	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
<b>414141</b>	white	3 x 500	5.44	0.025
<b>414147</b>	green	3 x 500	5.44	0.025

Ask for minimum quantity and delivery time for other colours.

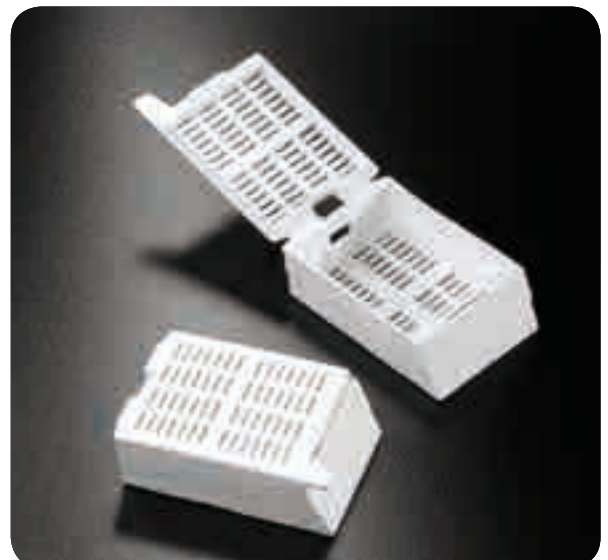


### Mega cassettes

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
<b>44125</b>	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	13.64	0.1640
<b>19931</b>	4 wheels	1	0.02	0.0001
<b>19921</b>	cabinet rack	2	0.38	0.0031
<b>19920</b>	cover	2	0.20	0.0017



## 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>DS42</b>	waterproof cardboard	18	5.30	0.130



## 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>DS40</b>	set of 6 drawers	1	6.00	0.034



## Laboratory storage cabinet

Designed especially for the storage of microscope 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 cassette drawers**
- **Modular microscope slide drawers**
- **Top**
- **Base**
- **Wheels base**

All modules are stackable.



### Modular top (1)

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS51</b>	26	485	480	2.50	0.007

### Modular cassette drawers (2)

Cabinet consisting sliding drawers.

The cabinet can hold approximately 910 embedding rings.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS36</b>	91	485	480	9.00	0.020

### Modular microscope slide drawers (3)

Consisting of 14 sliding drawers to hold a total of approximately 5,600 microscope slides of 26 x 76 mm.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS10</b>	146	485	480	12.50	0.044

### Modular base (4)

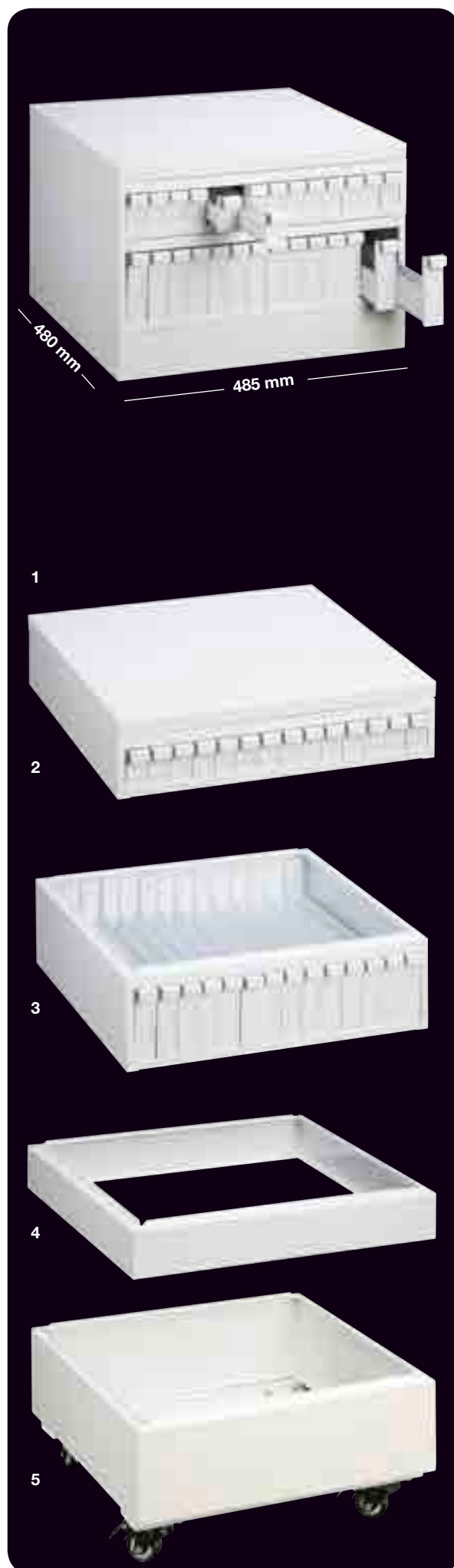
To fit all modular cabinets and drawers.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS52</b>	76	485	480	2.00	0.020

### Modular base with wheels (5)

To fit all modular cabinets and drawers.

code	external dimensions mm			unit weight	unit volume
	height	length	width		
<b>DS63</b>	146	485	480	12.00	0.070





## STAR FROST® ADHESIVE slides

**Standard size:** 26 x 76 mm. Thickness: 1 mm. Made in Germany. High definition, pre-washed glass. **Hydrophobic.** No stain residues, no proteins in the surface.

**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 free there is no need of washing them with chromic-acid.

### Available with ground edges 90° or beveled clipped corners.

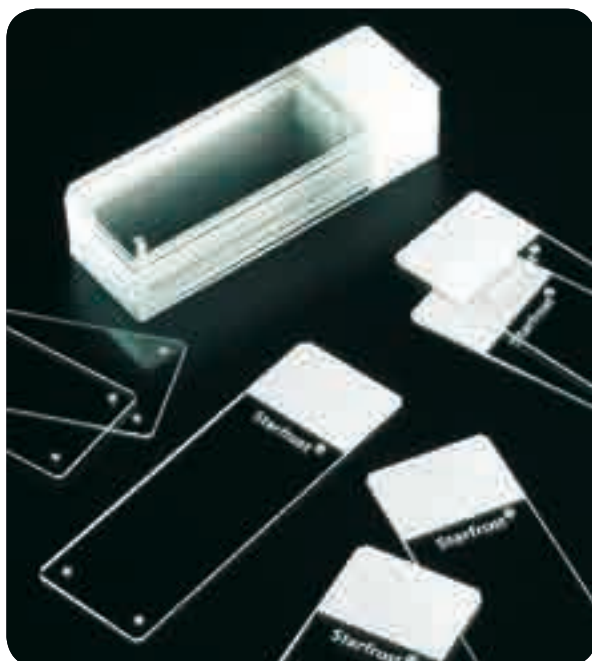
Supplied in boxes of 50 units.

Final package (20 boxes) by **tropical pack**.

Conforms with ISO 8037/1 (European standard).

Expiry date: 14 months after manufacturing date.

code	edges	corners	case quantity	case weight	case volume
<b>A100018</b>	grounded 90°	no clipped	20 x 50	5.02	0.004
<b>A100019</b>	grounded bevelled	clipped	20 x 50	4.98	0.004



### TROPICAL PACK:

Aluminium film designed to protect slides from humidity.

## STAR FROST® slides

**Standard size:** 26 x 76 mm. Thickness: 1 mm.

Made in Germany of high definition, pre-washed glass. Hydrophilic (epoxy). Feature a colour-coded, 20 mm **marking area**.

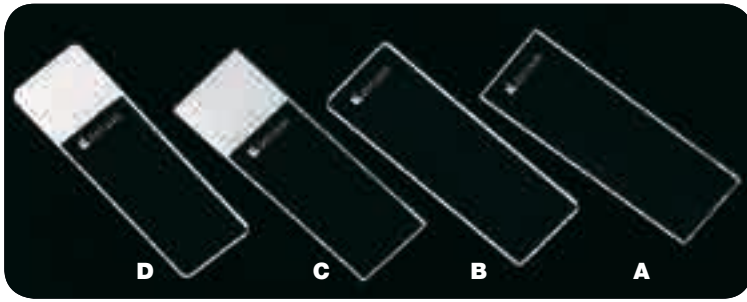
This special colour-printed area is resistant to all common chemicals used in the laboratories, and may be marked with pencil, ballpoint pen, marker and different laboratory-printers (e.g. Leica XPS). Thanks to the single side printing the user always knows the best surface to be used.

**Ground edges at 45° (angle) and clipped corners.** 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	4.94	0.003
<b>A100011</b>	green	20 x 50	4.98	0.004
<b>A100013</b>	blue	20 x 50	4.94	0.004
<b>A100014</b>	yellow	20 x 50	4.94	0.003





## EUROTUBO® slides

Standard dimensions: 26 x 76 mm ( $\pm 0.2$ ).

Clear, pre-washed glass, 1.1 mm ( $\pm 0.1$ ) thick.

Ideal for routine analysis.

Displayed in cases of 50 units.

Each case is vacuum flow-packed to protect them from dirtiness.

Each case includes a bag of silica salt.

Expiry date: 24 months after manufacturing date.

	code	edges	corners	matt area	case quantity	case weight	case volume
A	<b>D100001</b>	cut 90°	no clipped	no	50 x 50	14.25	0.014
B	<b>D100002</b>	grounded 45°	clipped	no	50 x 50	14.20	0.010
C	<b>D100003</b>	cut 90°	no clipped	yes	50 x 50	14.25	0.014
D	<b>D100004</b>	grounded 45°	clipped	yes	50 x 50	14.25	0.014



## EUROTUBO® cover slides

Specific use: protection of the sample and lens.

Clear, pre-washed glass. Thickness: 0.13 - 0.16 mm.

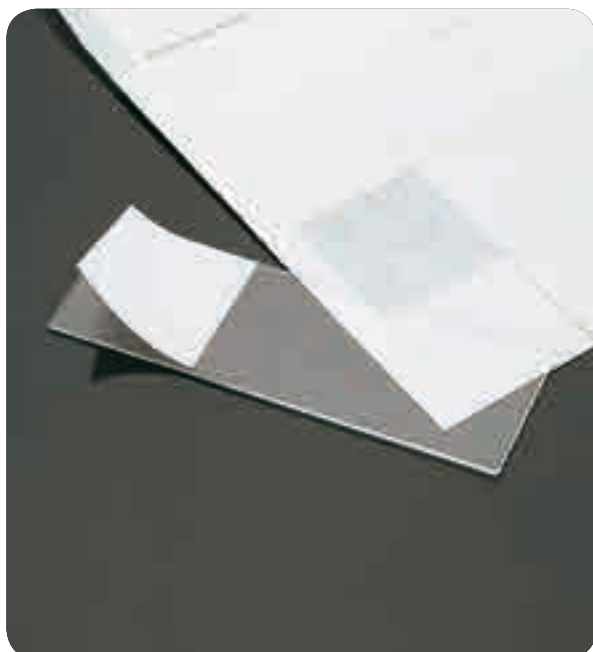
Supplied in cases of a hundred or two hundred units (depending on the code).

Each case includes a bag of silica salt, and is supplied vacuum in tropical pack. Easy opening, no need for scissors.

New improved box which minimize the risk of pack breakage and ensure a better lock.

code	dimensions mm	case quantity	case weight	case volume
<b>D101818</b>	18 x 18	5 x 200	0.30	0.0012
<b>D102020</b>	20 x 20	5 x 200	0.33	0.0011
<b>D102222</b>	22 x 22	5 x 200	0.37	0.0012
<b>D102240</b>	22 x 40	10 x 100	0.65	0.0016
<b>D102424</b>	24 x 24	5 x 200	0.41	0.0011
<b>D102432</b>	24 x 32	10 x 100	0.63	0.0017
<b>D102440</b>	24 x 40	10 x 100	0.68	0.0017
<b>D102450</b>	24 x 50	10 x 100	0.79	0.0017
<b>D102460</b>	24 x 60	10 x 100	0.89	0.0017





### Microscope slide labels 23 x 23 mm

Write on these permanent adhesion labels and stick them onto microscope slides for better identification.

White colour.

Each sheet contains 40 labels.

Page size: 13.3 x 19 cm.

code	quantity	weight	volume
<b>901600</b>	1,000 labels	0.14	0.0001



### 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	0.13	0.0003
<b>A20250</b>	bottle 250 ml	1	0.30	0.0016
<b>A20500</b>	bottle 500 ml	1	0.58	0.0020



### Staining tray

Made of ABS.

It will accept 10 or 20 slides on 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).

Cannot be used with acetone and chlorinated hydrocarbons.

code	description	case quantity	case weight	case volume
<b>989953</b>	staining tray 10 slides	1	0.65	0.003
<b>989951</b>	staining tray 20 slides	1	1.08	0.005





## Stains

	code	description		case quantity	case weight	case volume
Gram differential staining KIT: 805000*	<b>CE (IVD) 808000</b>	Eosin, solution, May Grunwald, 250 ml bottle Danger symbols: H225, H331, H311, H301, H370 Transport norms: ONU 1992, ADR: 3/6.1/II, IMDG: 3/6.1/II, IATA: 3/6.1/II. PAX: 352, CAO: 364		16	4.80	0.015
	<b>CE (IVD) 808001</b>	Eosin, solution, May Grunwald, 1000 ml bottle Danger symbols: H225, H331, H311, H301, H370 Transport norms: ONU 1992, ADR: 3/6.1/II, IMDG: 3/6.1/II, IATA: 3/6.1/II. PAX: 352, CAO: 364		12	13.00	0.045
	<b>CE (IVD) 808100</b>	Eosin, solution modified Giemsa, 250 ml bottle Danger symbols: H225, H331, H311, H301, H370 Transport norms: ONU 1992, ADR: 3/6.1/II, IMDG: 3/6.1/II, IATA: 3/6.1/II. PAX: 352, CAO: 364		16	5.15	0.015
	<b>CE (IVD) 808101</b>	Eosin, solution modified Giemsa, 1000 ml bottle Danger symbols: H225, H331, H311, H301, H370 Transport norms: ONU 1992, ADR: 3/6.1/II, IMDG: 3/6.1/II, IATA: 3/6.1/II. PAX: 352, CAO: 364		12	13.00	0.045
	<b>CE (IVD) 808200</b>	Eosin, solution Wright, 250 ml bottle Danger symbols: H225, H331, H311, H301, H370 Transport norms: ONU 1992, ADR: 3/6.1/II, IMDG: 3/6.1/II, IATA: 3/6.1/II. PAX: 352, CAO: 364		16	4.43	0.015
	<b>806030</b>	Lugol bottle 250 ml		16	4.90	0.015
	<b>805040</b>	Gentian violet bottle 250 ml		16	4.80	0.015
	<b>805001</b>	Gram decolorizing bottle 250 ml		16	4.25	0.015
	<b>805050</b>	Safranin solution bottle 250 ml Danger symbols: H226 Transport norms: ONU 1993, ADR: 3/II, IMDG: 3/II, IATA: 3/II		16	4.80	0.015
	<b>805001</b>	Gram decolorizing, 250 ml bottle. Danger symbols: H225, H319, EUH066, H336 Transport norms: ONU 1993, ADR: 3/II, IMDG: 3/II, IATA: 3/II PAX: 353, CAO: 364		16	4.25	0.015
Ziehl differential staining KIT: 805010*	<b>806030</b>	Lugol Iodine, 250 ml bottle. Danger symbols: H412		16	4.90	0.015
	<b>805040</b>	Violet crystal solution (Gentian violet), 250 ml bottle Danger symbols: H302, H351, H318, H410		16	4.80	0.015
	<b>805140</b>	Violet crystal solution (Gentian violet), 1000 ml bottle Danger symbols: H302, H351, H318, H410		12	13.00	0.045
	<b>805020</b>	Fuchsin bottle 250 ml		16	4.66	0.015
	<b>805030</b>	Methylene blue bottle 250 ml		16	4.80	0.015
	<b>805011</b>	Ziehl decolorizing 2 bottles 250 ml		16	4.46	0.015
	<b>805050</b>	Safranin solution, 250 ml bottle Danger symbols: H226 Transport norms: ONU 1993, ADR: 3/II, IMDG: 3/II, IATA: 3/II		16	4.80	0.015
	<b>805150</b>	Safranin solution, 1000 ml bottle Danger symbols: H226 Transport norms: ONU 1993, ADR: 3/II, IMDG: 3/II, IATA: 3/II		12	13.00	0.045
	<b>805120</b>	Ziehl fuchsin solution, 1000 ml bottle Danger symbols: H225, H312, H302, H319, H315, H341		12	13.00	0.045
	<b>805030</b>	Methylene blue, 250 ml bottle		16	4.80	0.015
	<b>805130</b>	Methylene blue, 1,000 ml bottle		12	13.00	0.045
<b>CE (IVD)</b>	<b>805013</b>	Fast stain for blood extensions, 250 ml containers, Kit with 2 containers A and 2 containers stain B		12 Kits	14.95	0.045

Minimum order quantity: 1 bottle or kit.







## Staining jars with lid

Material: **autoclavable TPX**.

Two options available: vertical, "Hellendahl" type (Code **19335**) horizontal "Schifferdecker" type (Code **19351**).

code	description	case quantity	dimensions mm	case weight	case volume
<b>19355</b>	vertical, for 8 slides	4	58 x 53.5 x 86	0.28	0.002
<b>19351</b>	horizontal, for 10 slides	4	76 x 65 x 45	0.32	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	0.10	0.0004



## 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 through 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 POM** (polyoxymethylene), resistant to staining agents as alcohol, xylene, etc. (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 °C** and **121 °C**.

Jar dimensions: 64 x 76 x 92 mm. Rack dimensions: 60 x 64 x 97 mm.



## Staining jar and dish

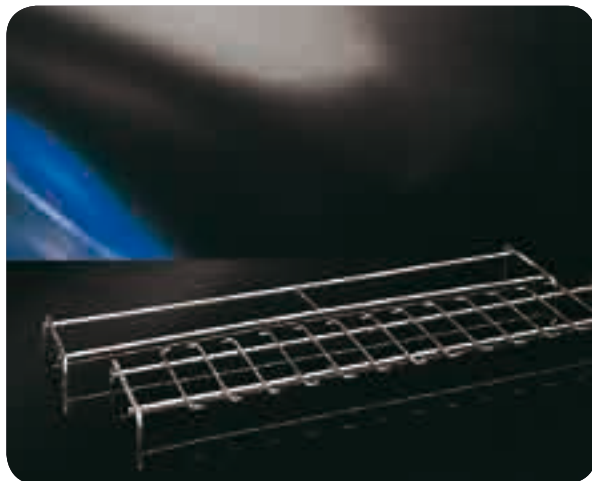
Dish made of polypropylene and jar made of **autoclavable TPX**. The jar is supplied with two lids. The first lid provides evaporation free storage of staining liquid when the dish is not in use. The second includes a slot to allow staining dish insertion.

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
<b>19353</b>	jar with 2 lids	4	0.49	0.006
<b>19354</b>	staining dish for 20 slides	2	0.06	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	case quantity	case weight	case volume
<b>S-004</b>	for 12 slides length: 435 mm, width: 85 mm	1	0.25	0.003
<b>S-002</b>	for 24 slides length: 435 mm, width: 175 mm	1	0.36	0.003
<b>S-003</b>	without dividers length: 435 mm, width: 85 mm	1	0.21	0.003

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	0.42	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.

Model **CP-30** has 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	0.12	0.0011
<b>CP-45 H</b>	basket for 45 horizontal slides	235 x 85	1	0.17	0.0017
<b>CP-30</b>	basket for 30 vertical slides	70 x 165*	1	0.20	0.0025

\* Height with handle



## 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	0.92	0.007

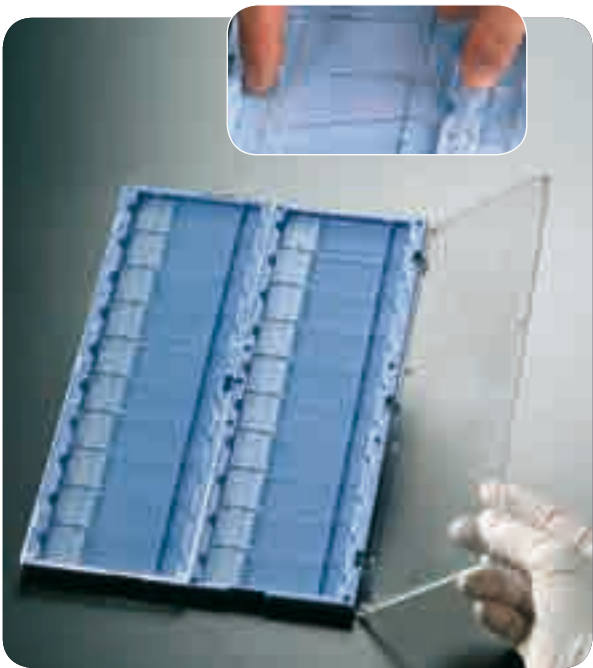




Slidefolder

Made of hight 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 °C** and **100 °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.

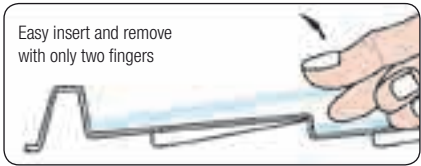
code	slidefolder colour	case quantity	case weight	case volume
989945	blue	10	3.20	0.013



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.  
Not autoclavable.  
External dimensions: 206 x 299 x 18 mm.

code	slidefolder colour	case quantity	case weight	case volume
989956	white	10	0.91	0.013



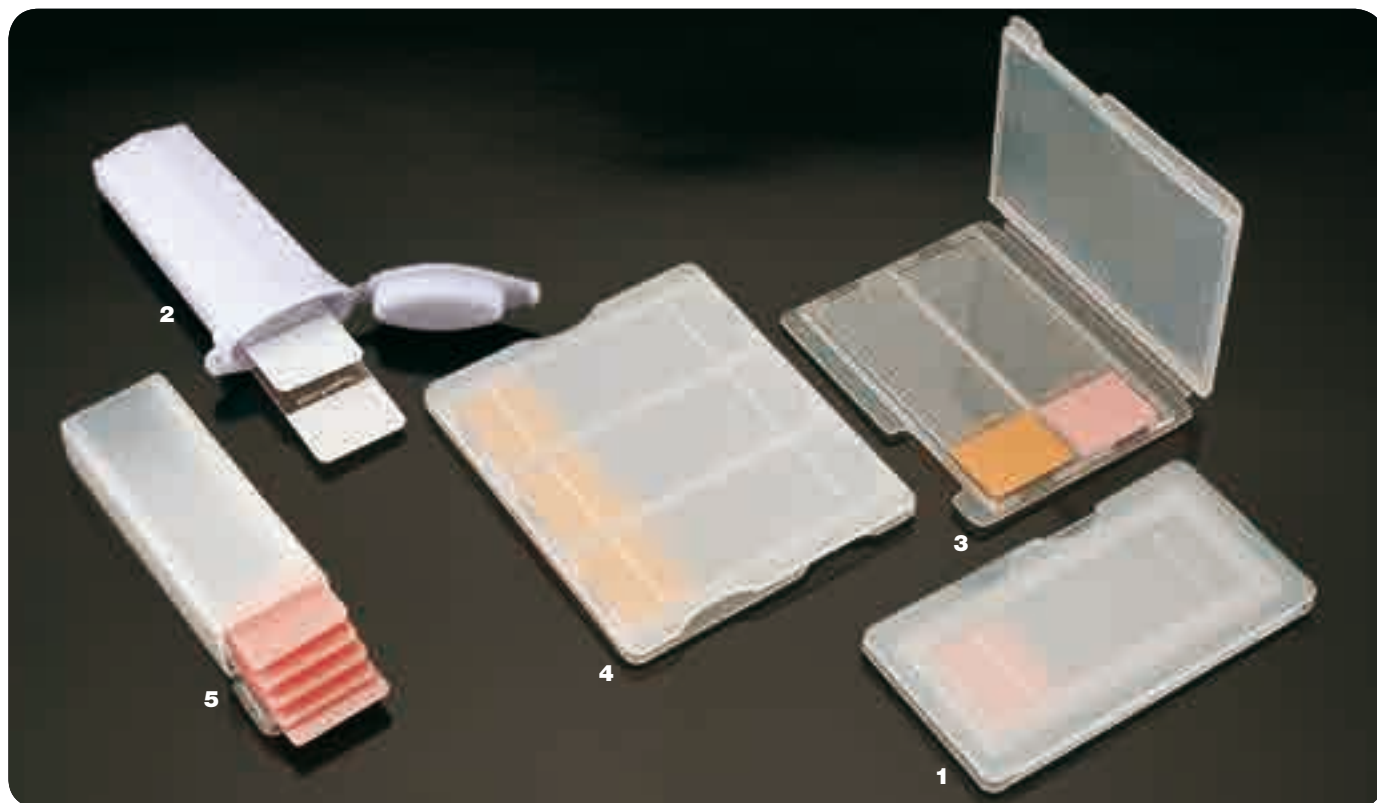
See our slides on pages 96-97

Slide trays

Material: polystyrene.  
Stackable.

code	description	dimensions mm	case quantity	case weight	case volume
989910	slide tray for 10 slides	95x330x50	40	2.50	0.015
989920	slide tray for 20 slides	195x330x50	20	2.44	0.015





### Slide mailer

Made of polypropylene.

Designed for slide transport and protection.

To send by mail we recommend to use special envelopes.

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	0.33	0.002
2	<b>900025</b>	2	87 x 47 x 16	100	1.27	0.010
3	<b>979930</b>	2	84 x 71 x 6	250	3.98	0.010
4	<b>19924</b>	3	84 x 99 x 6	10	0.30	0.001
5	<b>900028</b>	5	82 x 17 x 29	100	1.02	0.012



### Slide tube mailer

Tube in polypropylene for mailing, staining and storing of 4 standard slides.

Leakproof cap made of high density polyethylene in pink colour.

Incorporates a **tamper evident locking mechanism** that can be activated whenever user decides.

The cap has one space to insert a colour disc as identification (**40911A**, chapter 6. Tubes and microtubes).

Being transparent helps the user to notice if there are slides in it, an advantage in front of the popular white transparent tubes.

Internal volume: 12 ml.

**Dimensions:** 35 x 87 mm (external). Internal diameter: 27 mm

code	description	case quantity	case weight	case volume
<b>19926</b>	tamper evident tube	100	2.00	0.018





mod. 2, 3  

## 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	stackable	minimum order quantity	dimensions mm	case quantity	case weight	case volume
1	<b>19276.B</b>	beige slide box for 25 slides		5	93 x 87 x 32	200	10.61	0.071
	<b>19276.A</b>	blue slide box for 25 slides		5	93 x 87 x 32	200	10.61	0.071
2	<b>19277.B</b>	beige slide box for 50 slides	✓	2	200 x 89 x 32	100	11.28	0.071
3	<b>19278.B</b>	beige slide box for 100 slides	✓	5	200 x 170 x 32	50	11.85	0.071
	<b>19278.A</b>	blue slide box for 100 slides	✓	5	200 x 170 x 32	50	11.85	0.071

## 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	0.33	0.0028





## Slide storage boxes

Manufactured in polystyrene for 100 slides.

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.

This model feature has a safety closure.

**Dimensions:** 208 x 162 x 32.

code	description	case quantity	case weight	case volume
<b>19278.2</b>	red, for 100 slides	1	0.31	0.002
<b>19278.3</b>	white, for 100 slides	1	0.31	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: 230 x 97 x 35 (50 slides), 230 x 180 x 35 (100 slides).

code	description	case quantity	case weight	case volume
<b>19277</b>	for 50 slides	1	0.24	0.002
<b>19278</b>	for 100 slides	1	0.40	0.003



## 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)

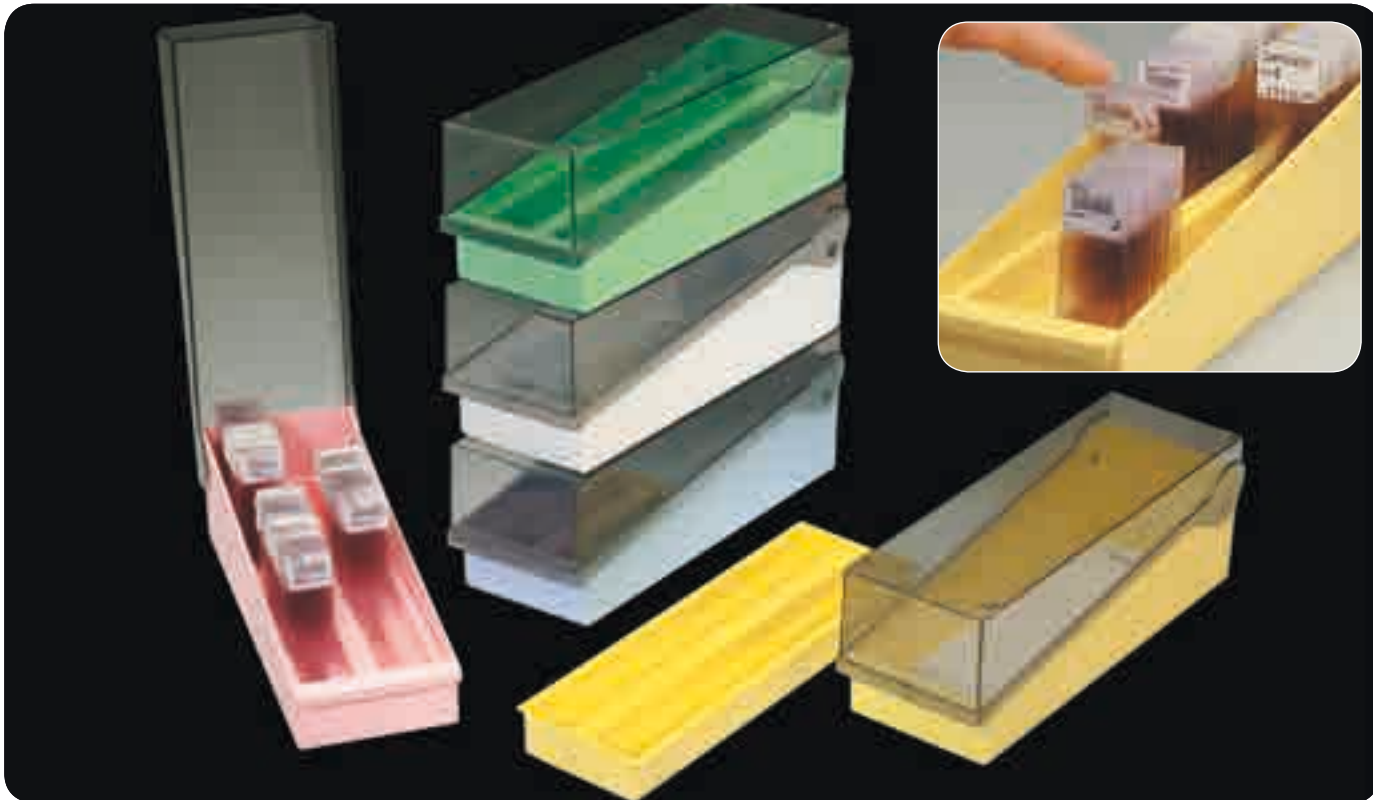
code	description	case quantity	case weight	case volume
<b>19276.1</b>	for 25 slides	48	3.56	0.019
<b>19277.1</b>	for 50 slides	24	3.40	0.018



## 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
<b>19540</b>	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	3.30	0.023
19279.7	green	10	3.30	0.023
19279.3	yellow	10	3.30	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.











### Whirl-Pak® bags with flat wires

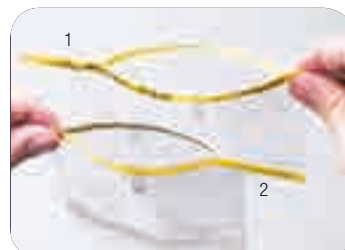
Same features as those from the following page but with a flat thicker wire instead of rounded wire resulting in a safer closure, which is preferred in some markets. With white write-on strip.

**Steriles by ethylene oxide.**

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
<b>200356</b>	540	11.5 x 23	64	500	2.18	0.0074



1. Rounded wire
2. Flat thicker wire



### Whirl-Pak® stand-up bags

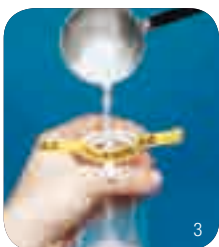
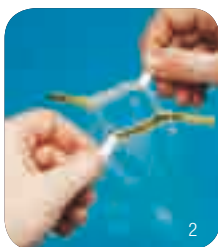
Same characteristics as Whirl-Pak® standard bags. However, they have a flat bottom which permits them to remain stand up when the sample is inside the bag. This allows to have both hands free when working so you can add or to extract the content comfortably. No need of any rack.

Working as a beaker or bottle, when they are empty they take up much less space.

They have a write-on white strip.

**Steriles by ethylene oxide.**

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
<b>200361</b>	540	11.5 x 23	64	500	2.50	0.017
<b>200365</b>	2,070	19 x 38	102	250	4.52	0.019



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 µ).

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-Pak® bags are the unique bags with a one-piece seam, avoiding the possible risks of the loss of the corners bags.

**Steriles by ethylene oxide.**

Made with materials suitable for alimentary use.

**Suitable for liquid nitrogen.**

Without strips

code	capacity ml	dimensions cm	thickness microns	alimentary use	case quantity	case weight	case volume
200325	60	7.5 x 12.5	57	✓	500	0.84	0.005
200340	120	7.5 x 18.5	57	✓	500	1.06	0.005
200341	210	9.5 x 18	76	✓	500	1.50	0.005
200342	390	13 x 19	76	✓	500	2.50	0.017
200329	540	11.5 x 23	64	✓	500	2.04	0.007
200332	720	15 x 23	76	✓	500	2.94	0.017
200343	720	15 x 23	102	✓	500	3.88	0.017
200345	1,080	12.5 x 38	76	✓	500	3.90	0.017
200346	1,260	15 x 38	76	✓	500	3.92	0.017
200347	2,070	19 x 38	76	✓	500	5.76	0.017



Avec bande blanche pour identification

code	capacité ml	dimensions cm	épaisseur micron	alimentary use	quantité par carton	poids du carton	volume du carton
200326	60	7,5 x 12,5	57	✓	500	0.78	0.005
200349	120	7,5 x 18,5	57	✓	500	1.02	0.005
200364	390	13 x 19	64	✓	500	2.02	0.017
200330	540	11,5 x 23	64	✓	500	1.97	0.008
200333	720	15 x 23	76	✓	500	3.06	0.017
200351	1.650	19 x 30	102	✓	500	5.66	0.018
200363	2.070	19 x 38	76	✓	500	5.54	0.019
200357	2.700	25,4 x 38	102	✓	250	5.32	0.022
200358	3.600	25,4 x 50,8	102	✓	250	6.46	0.022
200359	5.400	38 x 50,8	102	✓	100	5.26	0.023

White strip bags. 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. Made with materials suitable for alimentary use.

Non autoclavable.



See 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, etc.) as well as industries (to contain, spare pieces, small electronic components, buttons, sweets, etc.).

Made with materials suitable for alimentary use.

code	gauge	dimensions mm	case quantity	case weight	case volume
<b>M 5555</b>	200	55 x 55	2,000	1.17	0.0028
<b>M 6080</b>	200	60 x 80	2,000	1.41	0.0046
<b>M 70100</b>	200	70 x 100	2,000	1.63	0.0046
<b>M 80120</b>	200	80 x 120	2,000	2.64	0.0052
<b>M 80160</b>	200	80 x 160	2,000	2.88	0.0078
<b>M 100150</b>	200	100 x 150	2,000	3.96	0.0080
<b>M 110110</b>	200	110 x 110	2,000	3.10	0.0080
<b>M 120180</b>	200	120 x 180	2,000	4.64	0.0125
<b>M 150220</b>	200	150 x 220	2,000	7.02	0.0180
<b>M 180250</b>	200	180 x 250	2,000	9.16	0.0230
<b>M 200300</b>	200	200 x 300	2,000	11.52	0.0260
<b>M 250330</b>	200	250 x 330	2,000	14.91	0.0321
<b>M 300400</b>	200	300 x 400	2,000	22.00	0.0395



## White strip zip-lock bags

Same features as the above products. Made with materials suitable for alimentary use. Feature white strip for writing for better sample identification.

code	gauge	dimensions mm	case quantity	case weight	case volume
<b>M 5555B</b>	200	55 x 55	2,000	1.17	0.0028
<b>M 6080B</b>	200	60 x 80	1,000	0.70	0.0026
<b>M 80120B</b>	200	80 x 120	1,000	1.32	0.0038
<b>M 70110B</b>	200	70 x 110	1,000	0.98	0.0037
<b>M 100150B</b>	200	100 x 150	1,000	1.62	0.0044
<b>M 120180B</b>	200	120 x 180	1,000	2.40	0.0065
<b>M 160220B</b>	200	160 x 220	1,000	3.42	0.0099
<b>M 180250B</b>	200	180 x 250	1,000	4.58	0.0125
<b>M 200300B</b>	200	200 x 300	1,000	7.39	0.0190



## 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: 16x16.5 cm.

Made of polyethylene.

code	colour	thickness My	case quantity	cases weight	case volume
<b>V 160230</b>	green	50	2 x 1,000	10.89	0.029
<b>N 160230</b>	orange	50	2 x 1,000	10.65	0.031



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.

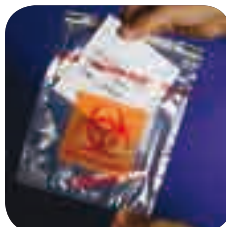
**Double pouch design:** one for specimen tubes and the other one for documents.

It features the biohazard symbol.

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

**Suitable for liquid nitrogen.**

code	capacity ml	dimensions cm	thickness microns	case quantity	case weight	case volume
<b>200372</b>	720	15 x 23	64	500	3.38	0.017



## Mailing container

Mailing container with safety screw blue cap, both manufactured in polyethylene. Leak proof.

Dimensions uncapped 117 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	0.090
<b>401302</b>	screw cap	500	1.90	0.010



## Forceps

Made of **POM** (polyoxymethylene).

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	0.23	0.0006
<b>19501</b>	145	5	0.05	0.0001
<b>19503</b>	250	5	0.18	0.0043





## Slide mailers

Designed for slide transport and mailing.  
Different models (tube, case, etc.) for one, two, three, four or even ten slides.

See more information in  
Chapter 4. **Histology, microscopy and staining**



## Containers for sampling

Polystyrene or polypropylene containers.  
Volumes from 30 ml to 1,000 ml.

See more information in  
Chapter 7. **Sample Containers**



## Exam gloves

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 12. **Safety and general labware**



## Swabs for microbiological sampling

Sterile swabs with or without transport media.

Tips made of viscose, cotton, polyester, etc.

Supplied in tube, peel pack, flow-pack, etc.

Transport media available:

- Amies with and without charcoal
- Stuart
- Cary Blair
- Virus
- Chlamydia



See more information in  
Chapter 1. **Microbiology**



## 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 12. **Safety and general labware**





## Cytology brush

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	3.55	0.009
440151	<b>STERILE EO</b> individual peel-pack	2 x 500	3.90	0.029



## Vaginal speculum

Manufactured in transparent polystyrene. Handle design that allows one-handed quick and convenient manner. Zip system for opening and closing. Aseptic. Rounded edges and ergonomically designed for single-handed use. Free of heavy materials as CE/94/62 directive.

Packaged individually with a peel-pack that facilitates the traceability and also indicates expiration date.

Available in 3 different sizes.

code	shaft width mm	case quantity	case weight	case volume
440157	17	100	3.89	0.060
440158	30	100	4.10	0.060
440159	33	100	4.62	0.060



## AYRE wood spatula

Rounded edges.

Sterile model is sterilised by **ethylene oxide** and includes instructions.

Total length 178 ± 5 mm.

code	description	case quantity	case weight	case volume
440142.0	non sterile	50 x 100	10.00	0.025
444150	<b>STERILE EO</b> individual peel-pack	2 x 500	5.10	0.029



## AYRE plastic spatula

Made of **autoclavable** polypropylene.

Rounded edges.

Sterile model is sterilised by **ethylene oxide** and include instructions.

Total length 179 ± 1 mm.

code	description	case quantity	case weight	case volume
440142	non sterile	5 x 500	7.00	0.025
444142	<b>STERILE EO</b> individual peel-pack	2 x 500	4.60	0.029
444242	<b>STERILE EO</b> individual flow-pack	2 x 500	4.90	0.029

Minimum ordering quantity: 500





## Isothermal bags

Isothermal bags for the transport of biological samples, manufactured from PEVA, 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  $-20^{\circ}\text{C}/-24^{\circ}\text{C}$  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	internal dimensions mm	external dimensions mm	capacity	case quantity	case weight	case volume
<b>900073</b>	230x230x170	200x200x150	6	1	0.63	0.004
<b>900074</b>	220x220x260	200x200x240	10	1	1.17	0.010
<b>900076</b>	390x250x280	370x230x260	27	1	1.38	0.011
<b>900078</b>	450x300x300	430x280x280	40	1	1.51	0.014



## 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 1,000 ml.

Special configurations:

- Personalized labels,
- Individually bagged bottles,
- Special dosifications of thiosulfate,
- Other bottles or jars from the catalogue, etc.





## Squared containers, graduated up to 2.7 litres



High density polyethylene container and cap. Ideal for 24 hour urine collection and other liquid samples.

The ribbed cap features a pharmaceutical grade liner, 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.

Length x width: 130 x 126 mm ( $\pm 1$  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 liner	unscrewed	no	no	64	34	5.52	0.150
407005/T	natural	white, with liner	screwed	no	no	64	34	5.52	0.150
407005.O	natural	white, with liner	screwed	yes	STERILE R	64	34	5.52	0.152
407006	brown	white, with liner	unscrewed	no	no	64	34	5.52	0.154
407006/T	brown	white, with liner	screwed	no	no	64	34	5.52	0.150

## 5 and 10 ml freestanding, conical bottom tubes

Freestanding tubes with screw caps. Conceived for sampling, transport and midterm storage. Feature molded graduations at 1 mL 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 °C 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	500	5.45	0.032
439910	10 ml PP thread tube	2 x 500	6.35	0.055

code	external cap Ø mm	internal tube Ø mm	length with cap mm	length without cap mm
439905	15.8	14.17	60.20	58.62
439910	15.8	14.17	94.74	92.96

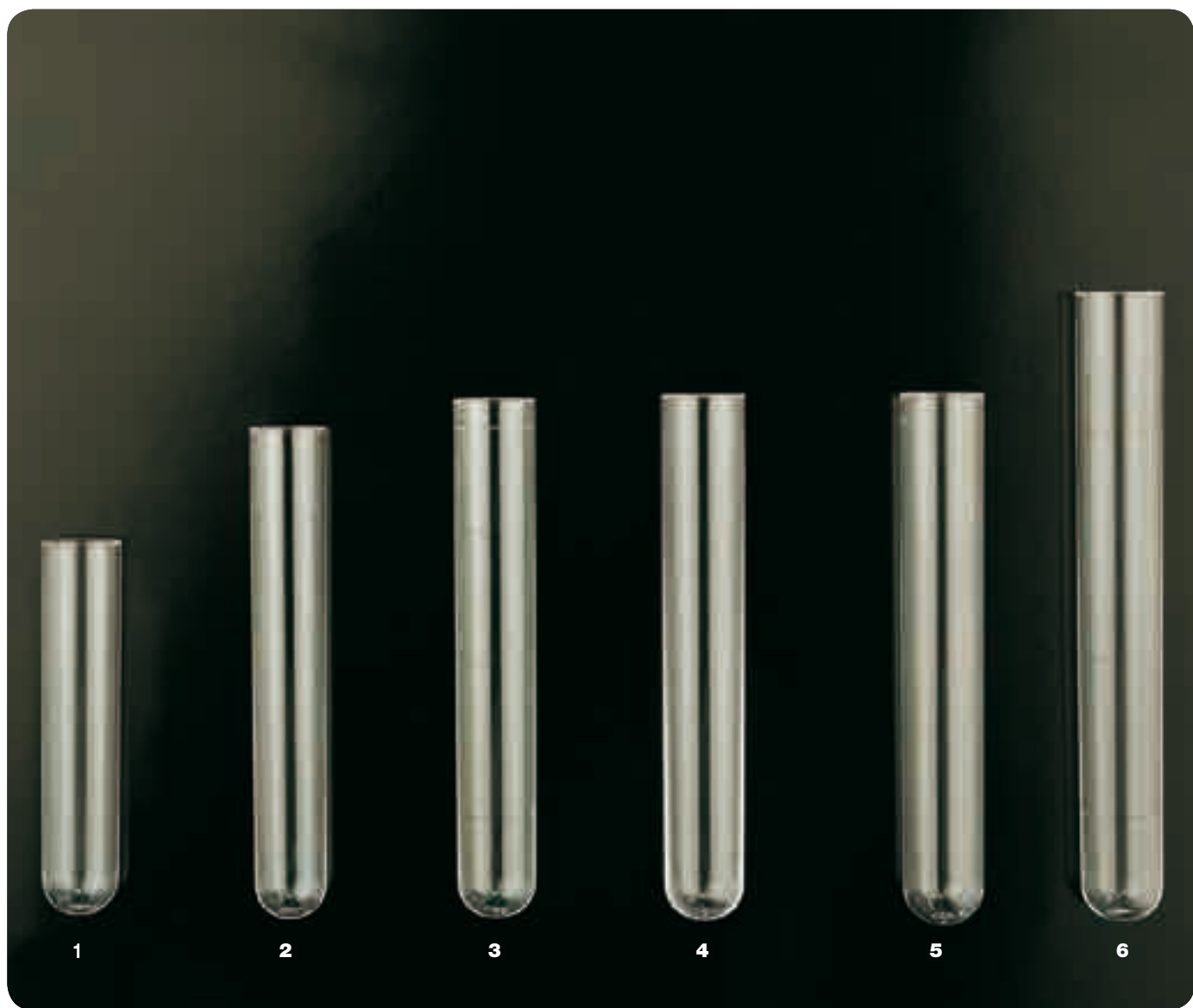












## Round bottom polystyrene tubes

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	6.50	0.046	32
2	<b>300300</b>	11 x 70	4	3 x 1,000	6.20	0.045	32
3	<b>300800</b>	12 x 75	5	4 x 1,000	9.52	0.075	20
4	<b>300800.2</b>	12 x 75 thick wall	5	4 x 1,000	10.70	0.075	20
5	<b>300800.1</b>	12 x 75	5	4 x 1,000	9.75	0.072	20
6	<b>300400</b>	12 x 88	6	4 x 1,000	11.30	0.082	20

Codes **300800** and **300400** have graduation rings. Code **300800** (mod. 3) is graduated at 1, 2.5 and 4 ml; code **300400** (mod. 6) is graduated at 1, 2.5 and 5 ml.

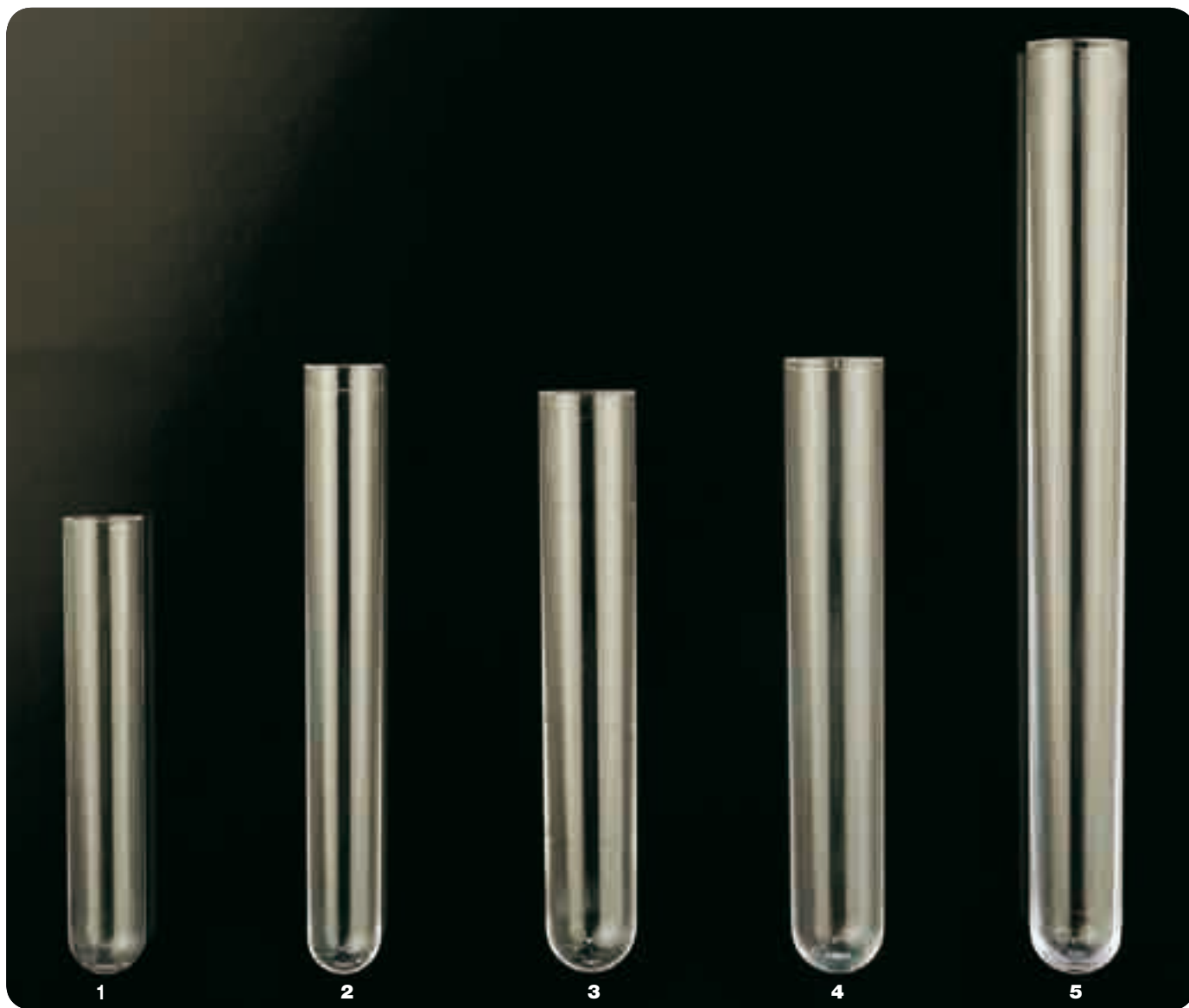
## Dimensions (±0,09)

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

## Suitable for centrifugation up to 7,500 xg.

A complete range of test tube caps is detailed on page 125 of this catalogue.

All tubes are suitable for laboratory use.



## Round bottom polystyrene tubes



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	13.04	0.082	20
2	<b>301700</b>	13 x 100	7	6 x 500	11.24	0.084	20
3	<b>300900</b>	16 x 95	10	5 x 500	12.10	0.096	16
4	<b>300705</b>	16 x 100	10	5 x 500	15.00	0.110	16
5	<b>300100</b>	16 x 150	17	1,000	9.84	0.093	20

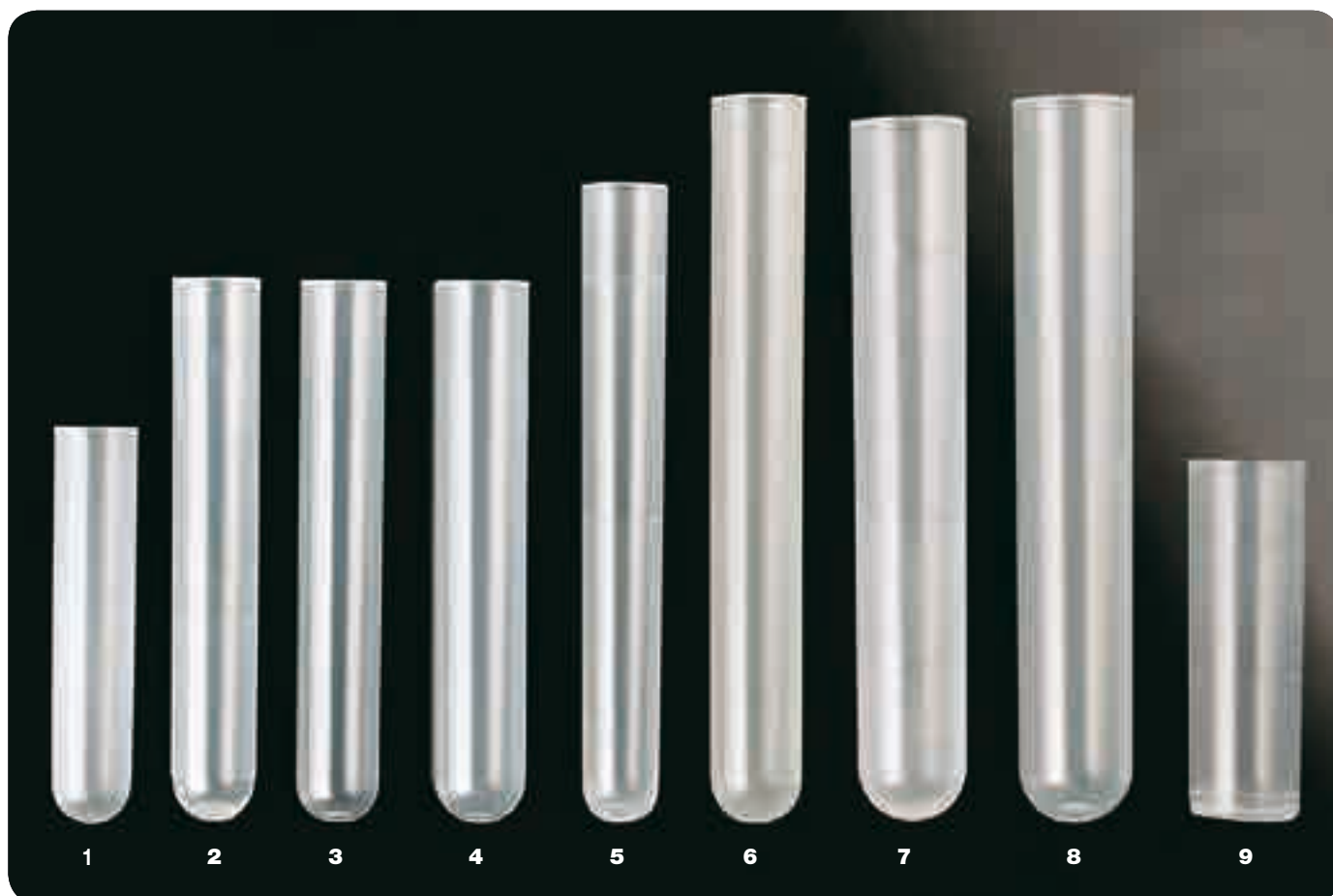
Code **300900** (mod. 3) has graduation rings at 2.5, 5 and 10 ml.

### Dimensions (±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 xg.** (excepting code **300100**, which does not withstand centrifugation).

A complete range of test tube caps is detailed on page 125 of this catalogue. All tubes are suitable for laboratory use.



## Ultra clear polypropylene tubes

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	32
2	<b>400800</b>	12 x 75	5	4 x 1,000	8.00	0.075	20
3	<b>400800.1</b>	12 x 75	5	4 x 1,000	8.00	0.075	20
4	<b>400700</b>	13 x 75	5	4 x 1,000	11.15	0.082	20
5	<b>400400</b>	12 x 88	6	4 x 1,000	9.60	0.082	20
6	<b>401700</b>	13 x 100	7	6 x 500	9.40	0.082	20
7	<b>400900</b>	16 x 95	10	5 x 500	10.10	0.096	16
8	<b>400705</b>	16 x 100	10	5 x 500	12.20	0.096	16
9	<b>401100</b>	15 x 50	5	5 x 1,000	10.40	0.082	20

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 xg.**

A complete range of test tube caps is detailed on page 125 of this catalogue.

All tubes are suitable for laboratory use.





## Polystyrene tubes capped

Suitable for centrifugation up to 7,500 xg.

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	7.92	0.045	32
<b>300903</b>	16 x 95	105.2	10	4 x 500	13.00	0.110	40
<b>300907</b>	16 x 100	109.6	11	4 x 500	15.41	0.110	12

Components:

code	tube	cap
<b>300702</b>	<b>300700</b> +	<b>307107</b>
<b>300903</b>	<b>300900</b> +	<b>308107</b>
<b>300907</b>	<b>300705</b> +	<b>308107</b>



## Polystyrene tubes, capped and labelled

Suitable for centrifugation up to 3,000 xg.

Dimensions of the label: 35 x 25 mm.

code	dimensions tube mm	height tube + cap mm	volume ml	case quantity	case weight	case volume	cases pallet
<b>300704</b>	13 x 75	83.4	5	2 x 1,000	7.50	0.046	40
<b>300904</b>	16 x 95	105.0	10	4 x 500	13.00	0.110	48
<b>300908</b>	16 x 100	110.4	11	4 x 500	14.00	0.096	16

Components:

code	tube	cap
<b>300704</b>	<b>300700</b> +	<b>307107</b>
<b>300904</b>	<b>300900</b> +	<b>308107</b>
<b>300908</b>	<b>300705</b> +	<b>308107</b>



See Chapter 5.  
Sampling and Transport.



## Conical tubes

Manufactured in polypropylene (PP) and polystyrene (PS).



mod.	code	autoclavable	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	12.92	0.096	16
2	<b>401200</b>	✓	16 x 102	PP	12	5 x 500	10.60	0.096	16
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	12.50	0.096	16
6	<b>401201</b>	✓	16 x 100	PP	12	5 x 500	10.20	0.096	16
7	<b>301202</b>		16 x 102	PS	12	5 x 500	12.90	0.096	16
8	<b>401204</b>	✓	16 x 100	PP	12	5 x 500	10.20	0.096	16

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 xg**; PP tubes: **15,000 xg**.

Except code **301212** and **301213** to **3,000 xg**.



## Polyethylene caps

mod.	code	to fit tubes	bag quantity	bag weight	bag volume	yellow	natural	brown	malve	blue	green	red	black
(to add at the end of the code)													
1	3053	300500, 400500, 300800.2	2 x 2,000	1.60	0.009		02	03	08		07	06	
2	3058	300800, 400800, 300800.1, 300400, 400400, 400800.1	2,000	1.76	0.007		02		08	05	07	06	09
3	3071	300700, 301700, 400700, 401700, 300701, serial 300700.6	2,000	1.50	0.007	01	02		08	05	07	06	09
4	3072	300705, 300900, 400705, 400900, 401100, 300707	2,500	3.00	0.018		02			05	07	06	
5	3050	300705, 300900, 400705, 400900, 401100, 300907, 300904, 300908	2,500	3.26	0.019		02		08		07		
6	3081	300705, 300900, 400705, 400900, 401100, 300707, 300907, 300904, 300908	2,500	5.00	0.023		02				07	06	
7	3070	300100	1,000	1.20	0.012							06	
8	3055	301201, 401201, 301200, 401200, 301202, 401204	2,500	4.00	0.018		02				07		
9	3082	301201, 401201, 401204	2,500	5.10	0.023		02			05			
10	3066	301213, 301212	1,500	1.28	0.012	01							
NEW 11	705722	300705, 300900, 400705, 400900	18x1,000	20.35	0.096							06	

Ask for other colours.

## Re-caps

Ideal for re-capping blood collection tubes «vacuum type».

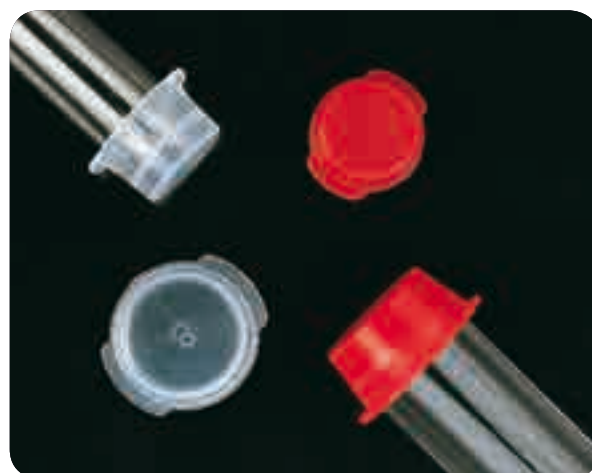
Suitable for other glass and plastic tubes.

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.



Please find racks for these tubes on Chapter 9. **Sample Storage**



### 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.



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.

code	internal Ø mm	external Ø mm	total length mm
<b>3072</b>	15.40	17.00	21.60
<b>3055</b>	14.50	17.05	21.77
<b>3071</b>	11.25	13.30	17.40





**3050** Internal diameter: 13.95 mm  
External diameter: 19.30 mm  
Total length: 13.15 mm



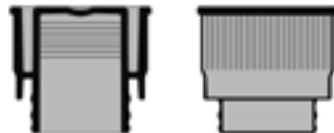
Includes an internal chamber for more liquid filling, thus compensating for the loss of space inside the tube caused by the insertion of a cap. Leakproof closing. Ergonomical. Ribbed surface. Cap shape is slightly conical for a better handling.

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.



**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.

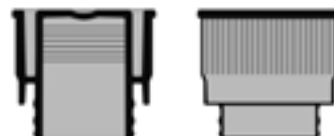
Ribbed for a better handling while using gloves.

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.



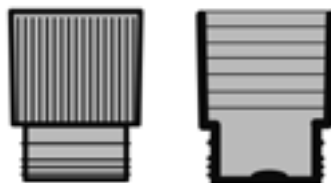
**3082** Internal diameter: 14.55 mm  
External diameter: 20.45 mm  
Total length: 18.50 mm



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



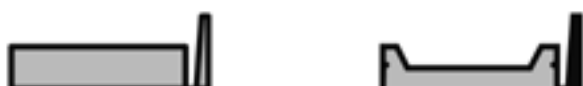
Ribbed for a better handling while using gloves.

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.





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

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.

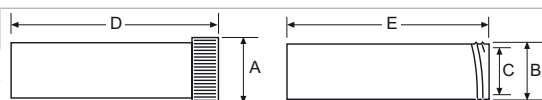
According to the guidelines for sterile products. Resistance to centrifugation: **PS: 7,500 xg. PP: 15,000 xg.**

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

mod.	code	description	autoclavable	sterile	maximum volume ml	volume recom. ml	case quantity	case weight	case volume	cases pallet
1	301403	polystyrene		no	14.4	12	6 x 250	12.90	0.082	20
2	301402	polystyrene individually wrapped		STERILE EO	14.4	12	6 x 250	13.40	0.096	16
3	401402	polypropylene individually wrapped	✓	STERILE EO	14.2	12	6 x 250	12.03	0.096	16
4	401403	high transparency polypropylene	✓	no	14.2	12	6 x 250	11.11	0.082	20

### 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
301402, 301403	20.9	16.3	14.4	103.9	102.5
401402, 401403	20.9	16.2	14.3	102.9	101.5



## 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 xg** and **70 °C**.

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

code	dimensions mm	case quantity	case weight	case volume
300807	12 x 75	8 x 125	4.24	0.033
300808	17 x 100	8 x 125	7.14	0.060



Loose position  
for aerobic work



Sealed position for  
anaerobic cultures



## 15 ml and 50 ml centrifugal tubes

Made of polypropylene, suitable for both clinical and research applications.

**DNase, RNase and pyrogen free.** They are also free from natural rubber and heavy metals.

High transparency of the material for a clear visualization during experiments specially for molecular biology and animal tissue culture.

Tube and cap designed with the system of flat threads for a complete leakproof.

Highly smooth hydrophobic surface for minimum disturbance during centrifugation.

Silk-screen blue graduation in the tube and large white frosted portion for easy writing.

**Autoclavable at 121 °C.**

Centrifugation resistance: **14.000 xg**, except code **429931: 7.000 xg** and codes **429950, 429951: 3.500 xg**

It is recommended to use adapters to centrifuge and avoid malformations.

Available models: 15 ml non-skirted and 50 ml skirted and non-skirted.



code	description	presentation	sterile	case weight	case volume	cases per pallet
<b>15 ml tubes</b>						
<b>429940</b>	non-skirted tube	500 tubes in bulk	NO	500	4.50	0.0281
<b>429945</b>	non-skirted tube	20 bag to 25 tubes.	NO	500	4.50	0.0281
<b>429942</b>	non-skirted tube	20 bag to 25 tubes.	<b>STERILE R</b>	500	4.02	0.0300
<b>50 ml tubes</b>						
<b>429930</b>	non-skirted tube	20 bag to 25 tubes.	NO	500	7.70	0.0844
<b>429931</b>	non-skirted tube	20 bag to 25 tubes.	<b>STERILE R</b>	500	7.44	0.0820
<b>429950</b>	skirted tube	20 bag to 25 tubes.	NO	500	8.80	0.0844
<b>429951</b>	skirted tube	20 bag to 25 tubes.	<b>STERILE R</b>	500	8.38	0.0820



### 15 ml and 50 ml conical high resistance tubes. Sterile

Tubes made of transparent, copolymer polypropylene.

Green caps made of polyethylene with an internal liner 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** (15 ml) and **-80 °C** (50 ml)..

Resistance to centrifugation: **17,000 xg** (15 ml) and **20,000 xg** (50 ml).

Autoclavable tube (the liner of the cap is not autoclavable)

Supplied 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	presentation	capacity ml	dimensions mm	case quantity	case weight	case volume
1	409920	bag 50 units	15	17 x 118	10 x 50	4.12	0.035
2	409922	bag 50 units	50	29.6 x 114.6	10 x 50	8.07	0.076



### 5 and 10 ml freestanding, conical bottom tubes

Freestanding tubes with screw caps. Conceived for sampling, transport and midterm storage. Feature molded graduations at 1 ml increments and a large surface for labeling and identification. Round bottom tubes made of **autoclavable** polypropylene, leakproof caps made of polyethylene.

Withstand temperatures between **121 °C** and **-80 °C** (-40 °C 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

#### Dimensions (±0,5):

code	external cap Ø mm	internal tube Ø mm	length with cap mm	length without cap mm
439905	15.8	14.17	60.20	58.62
439910	15.8	14.17	94.74	92.96







## EUROTUBO® 15 ml and 50 ml conical tubes



Tubes made of transparent polypropylene, conical bottom. Suitable for centrifugation tests in immunology laboratories, microbiology, etc.

With continuous thread and molded external graduation each 0.5 ml in 15 ml tubes, and each 5 ml in 50 ml tubes.

Blue polyethylene cap with internal elastic obturation to assure an hermetical closure.

Resistance to centrifugation:

15 ml tubes, non sterile models until **7.000 xg**, sterile models **5.000 xg**.

50 ml tubes, non sterile models until **12.000 xg**, sterile models **7.000 xg**.

Sterile models are not suitable for autoclaving.

Non sterile models are **autoclavable at 121 °C**, with the cap positioned on the thread but uncapped.

50 ml tubes have skirted and non skirted models.

code	description	sterile	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>15 ml conical tubes</b>										
<b>429910</b>	non sterile	no	20.9	14.35	17	120	500	3.80	0.030	54
<b>429920</b>	100 units in bag	<b>STERILE R</b>	20.9	14.35	17	120	5 x 100	3.90	0.029	54
<b>429946</b>	individually bagged	<b>STERILE R</b>	20.9	14.35	17	120	500	3.96	0.040	40
<b>50 ml conical tubes</b>										
<b>429900</b>	non skirted	no	34.4	27.2	29.5	117.5	500	7.80	0.072	20
<b>429900SP</b>	non skirted, unscrewed cap	no	34.4	27.2	29.5	117.5	500	7.90	0.082	20
<b>429901</b>	skirted	no	34.4	27.2	29.5	117.5	500	8.50	0.082	20
<b>429926</b>	non skirted, individually wrapped	<b>STERILE R</b>	34.4	27.2	29.5	117.5	500	8.20	0.082	20
<b>429926.25</b>	non skirted, bag 25 units	<b>STERILE R</b>	34.4	27.2	29.5	117.5	20x25	8.30	0.082	20
<b>429926.10</b>	non skirted, bag 100 units	<b>STERILE R</b>	34.4	27.2	29.5	117.5	5x100	7.90	0.082	20
<b>429927</b>	skirted, individually wrapped	<b>STERILE R</b>	34.4	27.2	29.5	117.5	500	8.80	0.082	20
<b>429927.25</b>	skirted, bag 25 units	<b>STERILE R</b>	34.4	27.2	29.5	117.5	20x25	8.80	0.082	20
<b>429927.10</b>	skirted, bag 100 units	<b>STERILE R</b>	34.4	27.2	29.5	117.5	5x100	8.50	0.082	20





## 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 wallthickness, 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 °C** 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 when tubes are intended to be heated or cooled rapidly.

**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**.

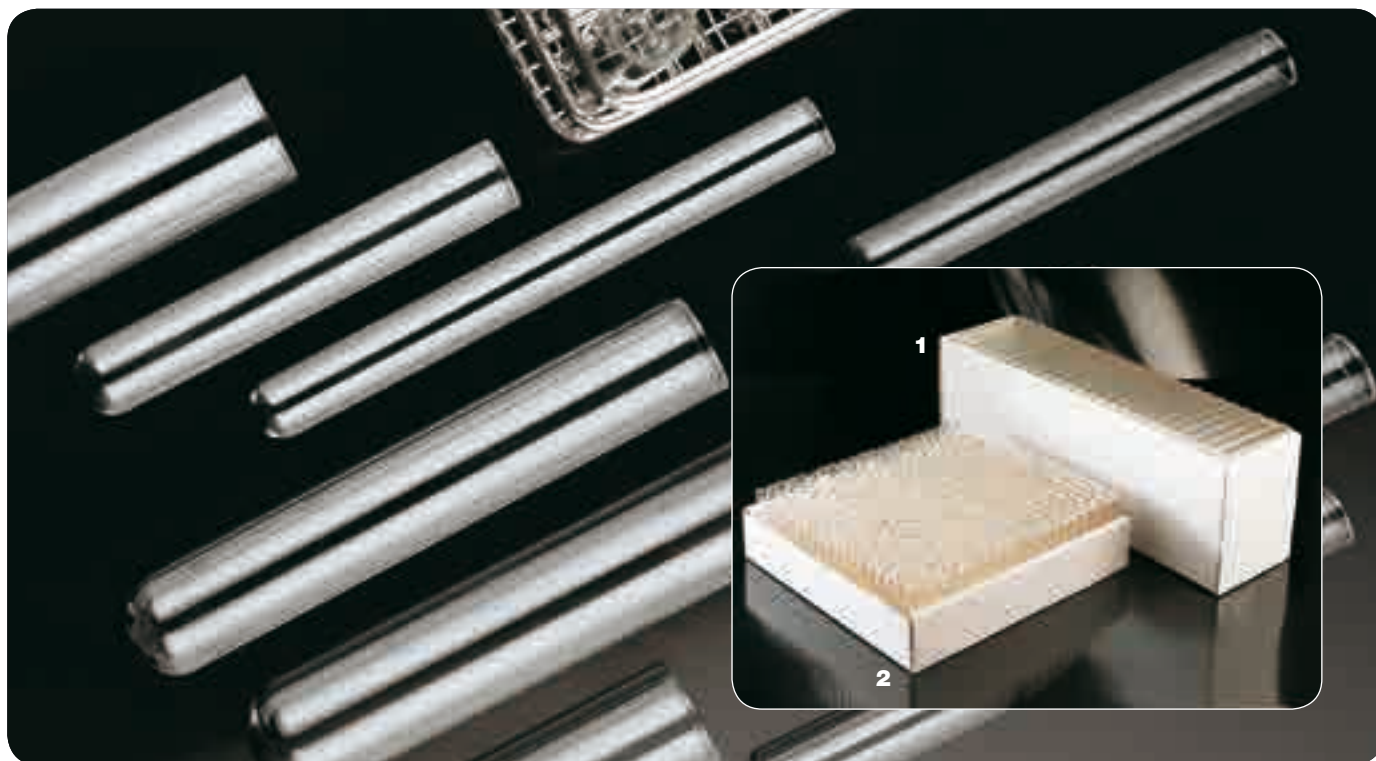
Suitable with codes **916100, 816100, 916150, 816150** and **816160**.

Vented caps (with inner flats).

Recommended for glass tubes.

code	recommended for tubes Ø mm	colour	case quantity	case weight	case volume
<b>617402</b>	16	natural	4 x 1,000	5.15	0.059





## 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 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>								
<b>801075</b>	4	8.20	9.75	75	0.60	4 x 250	3.60	0.010
<b>801275</b>	6	10.20	11.60	75	0.60	4 x 250	4.50	0.013
<b>813100</b>	10	11.10	12.70	100	0.60	4 x 250	6.59	0.022
<b>816100</b>	15	13.95	15.75	100	0.60	4 x 250	9.10	0.034
<b>816150</b>	22	13.55	16.00	150	0.70	4 x 250	13.60	0.049
<b>816160</b>	27	14.40	16.00	160	0.55	500	5.50	0.018
<b>818150</b>	28	15.00	18.00	150	0.85	2 x 250	7.30	0.030
<b>820150</b>	34	17.20	20.00	150	0.85	100	1.92	0.006
<b>820200</b>	47	17.15	19.25	200	0.85	250	6.30	0.020
<b>Supplied in trays (2)</b>								
<b>801175T</b>	6	10.10	11.60	75	0.50	550	1.89	0.005

code boro	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>								
<b>901075</b>	4	8.20	9.75	75	0.60	4 x 250	3.60	0.010
<b>901275</b>	6	10.20	11.60	75	0.60	4 x 250	4.50	0.013
<b>913100</b>	10	11.10	12.70	100	0.60	4 x 250	6.59	0.022
<b>916100</b>	15	13.95	15.75	100	0.60	4 x 250	9.10	0.034
<b>916150</b>	22	13.55	16.00	150	0.70	4 x 250	13.60	0.049
<b>918150</b>	28	15.00	18.00	150	0.85	4 x 125	7.30	0.040





## 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
<b>Round bottom borosilicate tubes, supplied in boxes.</b>										
<b>713100</b>	5	13 - 415	10.65	12.75	100	1.00	4 x 250	9.56	0.021	<b>617100</b>
<b>716100</b>	11	15 - 415	14.00	16.00	100	1.05	4 x 250	12.36	0.033	<b>617200</b>
<b>716125</b>	14	15 - 415	14.00	16.00	125	1.05	4 x 250	14.91	0.045	<b>617200</b>
<b>716150</b>	18	15 - 415	14.00	16.00	150	1.05	4 x 250	17.42	0.047	<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>
<b>Flat bottom soda glass tubes supplied in trays.</b>										
<b>617145</b>	24	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 liner made of caoutchouc.

Pharmaceutical quality.

Both models of caps are fully **autoclavable**.

code	suitable tube	type of cap	bag quantity	bag weight	bag volume
<b>617000</b>	<b>617145</b>	aluminium	500	0.76	0.003
<b>617100</b>	<b>713100</b>	polypropylene	1,000	0.86	0.005
<b>617200</b>	<b>716100 / 716125 / 716150</b>	polypropylene	1,000	1.50	0.007
<b>617300</b>	<b>720150</b>	polypropylene	500	1.03	0.012







## 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	0.30	0.0010	917000
2	900205	18 x 50	5	15-425	250	1.82	0.0042	918000
3	900211	22 x 48	10	18-400	100	0.94	0.0024	922000
4	900212	19 x 65	12	18-400	100	1.10	0.0020	922000
5	900220	28 x 65	20	22-400	2 x 150	2.70	0.0100	928000
6	900225	28 x 70	24	22-400	100	1.52	0.0057	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	0.11	0.0003
B	918000	15-425	250	0.32	0.0006
C	922000	18-400	250	0.53	0.0026
D	928000	22-400	300	0.98	0.0062

## 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	0.50	0.0078
D-230	219 x 166 x 85	48 (8 x 6)	1	0.26	0.0042
D-240	165 x 110 x 85	24 (6 x 4)	1	0.16	0.0020
D-250	111 x 84 x 85	12 (4 x 3)	1	0.10	0.0013



See other racks for tubes in Chapter 9. **Sample Storage**



### 0.4 ml microtubes, Beckman® type

Manufactured in polyethylene.

Dimensions: 5.50 x 47.50 mm (Ø x h), capped.

Withstand centrifugation up to **11.000 xg** 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	11.32	0.070



See our wide range of racks for microtubes in Chapter 9. **Sample Storage**



### 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 xg**.

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	7.00	0.052



### 0.5 ml microtubes, Vitatron® type

Made of **autoclavable** polypropylene. Ideal for little sample volumes, microtechniques, microsedimentation, etc.

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 xg**.

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 ul increments from 0.1 to 0.6 ml. Withstand centrifugation up to **17,000 xg**.

Dimensions: 30 x 8 mm. Can be used from **-80 °C to 121 °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
4092.1N	natural graduated	10 x 1.000	7.28	0.053
4092.1NS	low adherence natural graduated	10 x 500	3.42	0.028



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, etc.).

Can be used at temperatures down to **-100 °C**.

Withstand centrifugation up to **21.000 xg** equivalent to **15.000 rpm**.

code	dimensions Ø x h mm	colour	case quantity	case weight	case volume
200400	10.86 x 39.06	natural	5 x 1,000	5.40	0.051
200401	10.86 x 39.06	yellow	5 x 1,000	5.40	0.051
200405	10.86 x 39.06	blue	5 x 1,000	5.40	0.051
200407	10.86 x 39.06	green	5 x 1,000	5.40	0.051
200410	10.86 x 39.06	pink	5 x 1,000	5.40	0.051



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 xg**.

code	dimensions Ø x h mm	case quantity	case weight	case volume
200400P	10.2 x 39.9	12 x 500	6.60	0.049





NEW

## 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.

Withstand centrifugation up to **15,000 xg**.

code	dimensions Ø x h mm	case quantity	case weight	case volume
<b>4092.4N</b>	11 x 39	10 x 500	7.00	0.0046



## Premium 1.5 microtube. Safety lock

Same features as code **4092.4N** besides is **free of DNA, DNase, RNase and pyrogens**.

**Autoclavable.** Can be used from **−90 °C to 121 °C**.

Withstand centrifugation up to **20,000 xg**.

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 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.

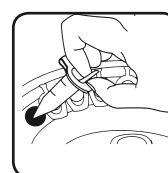
Pierceable cap.

Withstand centrifugation up to **17,000 xg**.

### 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 **-170 °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 **20,000 xg**.

code	colour	case quantity	case weight	case volume
4092.2N	natural	10 x 500	6.82	0.048

Other colours under request.



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, etc.).

Can be used at temperatures from **-90 °C to 121 °C**.

Withstand centrifugation up to **20,000 xg**.

**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	6.77	0.054
4092.3NS	natural colour, clear siliconised	10 x 250	3.70	0.026



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: 9 x 40 mm.

Can be used at temperatures from **-90 °C up to 121 °C**.

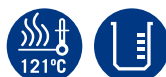
Withstand centrifugation up to **17,000 xg**.

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	0.053
4092.6NS	natural colour, clear siliconised	10 x 250	4.09	0.036

Minimum order quantity: 500 and 250 units respectively.





## 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 **12,000 xg**.

code	dimensions Ø x h mm	case quantity	case weight	case volume
<b>4092.7N</b>	10.3 x 40.5	10 x 500	6.50	0.055



## 5 ml Graduated Microtube

5 ml microtubules are the perfect choice for intermediate volume between microcentrifuge tubes and 15 ml conical tubes.  
 Made of transparent polypropylene. The microtubes are graduated each 250 µL and are supplied with a matte band able to write in.  
 Flat cap is attached to the tube. Easy handling: microtube can be opened and close with one hand.  
 Can be used from Resistant to temperatures from **-80 °C** to **121 °C**.  
**Autoclavable. Free of DNA, DNase, RNase and PCR inhibitors.**  
 Withstand centrifugation up to **25,000 xg**.

code	dimensions Ø x h cm	case quantity	case weight	case volume
<b>4092.8N</b>	1.9 x 6	5 x 200	6.35	0.039



Please find racks for these microtubes on Chapter 9. **Sample Storage**



## 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 polypropylene (page 145). 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 °C**.

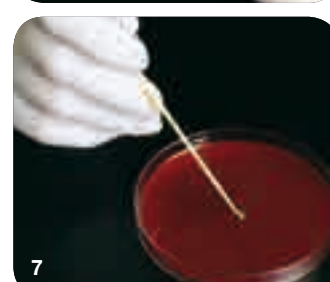
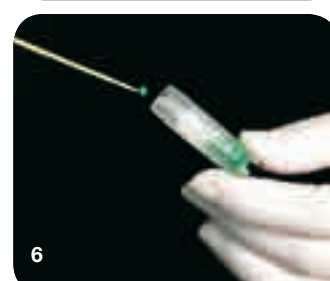
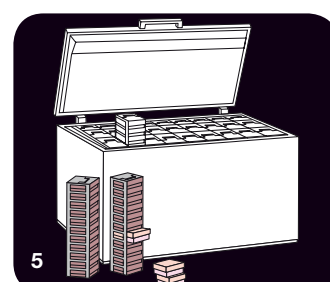
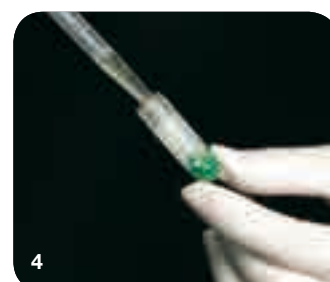
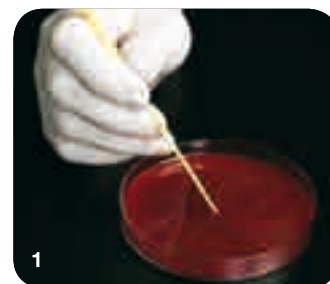
In order to ease the classification of the samples, we offer the possibility to get cryovials with caps and beads in five different colours: every code displays caps and beads from a single and same colour (excepting code **409113/6**, which is an assortment), allowing a fast and easy identification of the samples, and providing a system whereby users are able to code different bacterial species, different samples, different laboratories, etc. And even more: with colour coded inserts (described on page 144) a further classification can be made.

Cryovials are presented in carton boxes (resistant to **-100 °C**; dimensions: 150x150x55 mm) with 100 units; boxes are furtherly described in page 202. Each box is supplied plastic-wrapped and labelled with code reference, batch, expiration date and specifying the colour of the caps and beads. Shelf life: 48 month. **Autoclave sterile**.

code	beads and cap colour	case quantity	case weight	case volume
<b>409113/1</b>	white	100	0.59	0.002
<b>409113/2</b>	blue	100	0.59	0.002
<b>409113/3</b>	yellow	100	0.59	0.002
<b>409113/4</b>	red	100	0.59	0.002
<b>409113/5</b>	green	100	0.59	0.002
<b>409113/6</b>	assorted: 5 colours x 20 cryovials	100	0.59	0.002

### Way of use:

- 1 Take the sample from the strain with a loop (please see our loops on page 32 and 33)
- 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 189-193)
- 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





## Screw thread microtubes

Made of **autoclavable** polypropylene, they can be used at extreme temperatures from **-190 °C to +121 °C**.

Two versions available: in transparent polypropylene, or opaque brown (**UV resistant**, designed to be used with light sensitive samples).

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

Tubes and caps can be centrifuged at **17,000 xg**.

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	1.47	0.010
2	<b>409110.2</b>	1.5	yes	1,000	1.45	0.009
3	<b>409110.3</b>	1.5	no	1,000	1.42	0.009
4	<b>409110.4</b>	2.0	yes	1,000	1.30	0.010
<b>Brown polypropylene</b>						
5	<b>409113.1</b>	0.5	yes	1,000	1.54	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	1.43	0.009
8	<b>409113.4</b>	2	yes	1,000	1.34	0.009



## Caps for screw thread microtubes

Made of polypropylene.

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
<b>Transparent polypropylene</b>					
1	<b>409007.N</b>	cap with loop	1,000	0.41	0.003
2	<b>409008.N</b>	cap without loop	1,000	0.40	0.002
<b>Brown polypropylene</b>					
3	<b>409007.M</b>	brown cap with loop	1,000	0.45	0.003
4	<b>409008.M</b>	brown cap without loop	1,000	0.55	0.010
<b>Inserts</b>					
5	<b>409111R</b>	red insert	500	0.06	0.001



## Screw cap microtubes, with cap. Sterile

Tubes and caps in medical grade, transparent polypropylene.

The cap embodies a non-reactive ethylene-propylene o-ring.

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

Perfect for long term storage.

Withstand temperatures from **-190 °C**.

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

**DNase, RNase, DNA, and PCR inhibitors 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
409115/4	0.5 ml skirted	STERILE R	î	50 x 50	5.90	0.030
409115/2	1.5 ml non skirted	STERILE R	P	50 x 50	5.90	0.030
409115/6	2 ml skirted	STERILE R	P	50 x 50	5.90	0.030
409115/3	2 ml non skirted	STERILE R	P	50 x 50	5.90	0.030



## 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 °C**.

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

Products ideal for long term sample storage.

Withstand centrifugation at **20,000 xg**. 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).

Caps are supplied separately, see below.

mod.	code	description	graduation	case quantity	case weight	case volume
1	<b>409111/4</b>	0.5 ml skirted	✗	500	0.78	0.005
2	<b>409111/2</b>	1.5 ml	✓	500	0.61	0.005
3	<b>409111/5</b>	1.5 ml skirted	✗	500	0.73	0.005
4	<b>409111/3</b>	2.0 ml	✓	500	0.71	0.005
5	<b>409111/6</b>	2.0 ml skirted	✗	500	0.76	0.005
6	<b>409111/7</b>	2.0 ml skirted	✓	500	0.73	0.005

## Caps for screw thread microtubes

Made of medical grade polypropylene.

Feature an internal O-ring to ensure leakproof seal.

Dimensions 13.0 x 6.0 mm.

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

code	colour	case quantity	case weight	case volume
<b>409112/0</b>	natural	500	0.21	0.0009
<b>409112/1</b>	blue	500	0.21	0.0009
<b>409112/2</b>	green	500	0.21	0.0009
<b>409112/4</b>	red	500	0.21	0.0009
<b>409112/6</b>	yellow	500	0.21	0.0009

## 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 °C** to **121 °C**.

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

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
- Forensic laboratories

mod.	code	volume ml	case quantity	case weight	case volume
1	<b>409110.4T</b>	2	1,000	2.06	0.013
2	<b>409110.2T</b>	1.5	1,000	2.06	0.013
3	<b>409110.5T</b>	1.5	1,000	1.70	0.013



Screw cap until locking ring clicks over serrated tube neck.

Contents are now protected until cap is removed and tamper-evident ring is detached.

Internal obturating ring

Silicone O-Ring

Gripped for a better handling

Tamper evident ring



## Sterile cryovials

Tubes made of **autoclavable** polypropylene.

Designed for the storage of biological material at temperatures as low as **-196 °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 xg**.

\* 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 xg**.



### 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	2.50	0.014
<b>409103.1</b>	2.0	no	12.5 x 47	10 x 100	2.70	0.017
<b>409106.1</b>	2.0	yes	12.5 x 49	10 x 100	2.68	0.015
<b>409107</b>	3.0	yes	12.5 x 71	10 x 100	3.88	0.023
<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	4.60	0.023
<b>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	1.94	0.015
<b>409002</b>	2.0	no	12.5 x 48	10 x 100	2.22	0.016
<b>409002.1</b>	2.0	yes	12.5 x 49	10 x 100	2.24	0.015
<b>409003</b>	4.0	no	12.5 x 70	10 x 100	3.79	0.028
<b>409003.1</b>	4.0	yes	12.5 x 72	10 x 100	3.90	0.028
<b>409003.2</b>	5.0	no	12.5 x 90	10 x 100	4.60	0.024

\* Capped.



See racks at page 207



## 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	0.08	0.0005
<b>409003AM</b>	yellow	500	0.08	0.0005
<b>409003R</b>	red	500	0.08	0.0005
<b>409003V</b>	green	500	0.08	0.0005

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 xg**. 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
409102.1	1.2	yes	12.5 x 43	1,000	1.38	0.007
409104.1	2.0	no	12.5 x 48	1,000	1.49	0.007
409106.2	2.0	yes	12.5 x 49	1,000	1.72	0.007
409107.1	3.0	yes	12.5 x 72	1,000	2.48	0.020
409108.1	4.0	yes	12.5 x 76	1,000	2.89	0.018
409109.1	5.0	yes	12.5 x 93	1,000	3.67	0.026

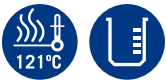
\* Capped



Cryovials with graduation and band:

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
409132	2.0	yes	12.5 x 49	1,000	1.69	0.009
409133	3.0	yes	12.5 x 72	1,000	3.77	0.010
409135	4.0	yes	12.5 x 76	1,000	2.92	0.018

\* 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
409110	natural	1,000	0.80	0.004
409110/1	blue	1,000	0.79	0.004
409110/4	red	1,000	0.79	0.004

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
409120	290 mm	12	0.11	0.001











1



2



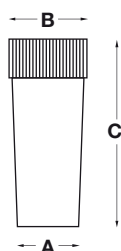
### 30 ml universal polystyrene containers (25 x 90 mm)

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.

Other colours can be supplied (ask for quantities).

mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	<b>309202</b>	polystyrene	no	400	5.20	0.045	32
2	<b>309222</b>	polystyrene individually wrapped	no	400	5.70	0.045	32
2	<b>309222.O</b>	polystyrene individually wrapped	<b>STERILE EO</b>	400	5.70	0.045	32

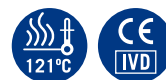


#### Dimensions:

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 xg.**

**STERILE A STERILIZATION TYPE:** in this case the parts are not sterilized at the end of its manufacture process since is the process by itself which is able to obtain a sterile product. This is because the entire process from injection of different plastic components to the assembly is protected by a sterile atmosphere, thanks to the cowl of the entire installation and the placement of laminar flows that create an overpressure sterile air inside the facilities.

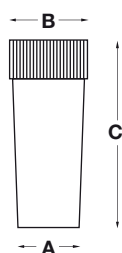


### 30 ml universal polypropylene containers (25 x 90 mm)

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 and labeled models can be supplied (ask for quantities).

**Autoclavable** (except the code **409602**, the polystyrene spatula must be removed before autoclaving).

mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	<b>409202</b>	polypropylene	no	400	4.50	0.040	32
2	<b>409222</b>	polypropylene individually wrapped	no	400	5.10	0.045	32
2	<b>409222.O</b>	polypropylene individually wrapped	STERILE EO	400	5.10	0.045	32
3	<b>409602</b>	polypropylene with PS spoon	no	400	4.70	0.047	32



#### 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 xg.**

### 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	0.045	32



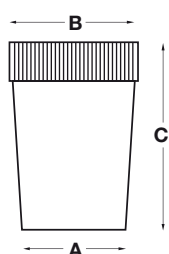


## 50 ml containers (38 x 70 mm)

With polyethylene caps. Volume: 50 ml.



code	description	case quantity	case weight	case volume	cases pallet
409802	ultra clear polypropylene	700	9.30	0.096	16
409852	ultra clear polypropylene with PS spoon	700	9.30	0.096	16
409826	ultra clear polypropylene individually wrapped	600	8.40	0.096	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)

With polyethylene caps. Graduated.

Volume 40 ml.

code	description	case quantity	case weight	case volume	cases pallet
409402	ultra clear polypropylene	8 x 100	8.35	0.096	16
409426	ultra clear polypropylene, individually wrapped	800	10.50	0.110	16
309402	polystyrene	8 x 100	11.00	0.096	16

### 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 x 70 mm)

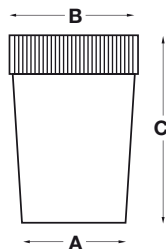


Ultra clear polypropylene containers with a specially designed tamper evident ring.  
Polyethylene caps. Standard colour of caps: red. Volume: 50 ml.

code	description	case quantity	case weight	case volume	cases pallet
<b>419802</b>	ultra clear polypropylene	700	9.42	0.096	16
<b>419826</b>	ultra clear polypropylene individually wrapped	600	8.40	0.096	16

Containers are supplied capped but not fully locked so that the container is not fully sealed.

Once samples (urine, milk, water, etc.) 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.



The seal ring will be automatically broken when unscrewing

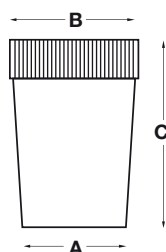




## 60 ml polystyrene containers (38 x 65 mm)

New generation of 60 ml containers with high safety closure biflex caps.  
Caps made of polyethylene.  
Standard colour of the cap: red.

mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	<b>309502</b>	polystyrene	aseptic	600	9.10	0.096	20
2	<b>309552</b>	polystyrene with spoon	aseptic	600	8.87	0.096	16
3	<b>309526</b>	polystyrene individually wrapped	<b>STERILE A</b>	750	11.55	0.140	12



### 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
<b>I-240</b>	315 x 210 x 45	24 (6 x 4)	1	0.35	0.0042
<b>I-250</b>	210 x 160 x 45	12 (4 x 3)	1	0.25	0.0022

Wide range of racks and baskets, see chapter 9.



See metal racks in  
Chapter 9. **Sample Storage**



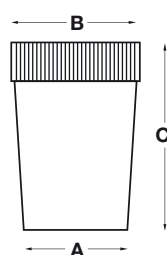


## 60 ml polypropylene containers (38 x 65 mm)

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.



mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	<b>409501</b>	polypropylene labelled	aseptic	600	8.00	0.096	16
2	<b>409502</b>	polypropylene	aseptic	600	7.90	0.096	16
3	<b>409552</b>	polypropylene with spoon	aseptic	600	8.25	0.096	16
4	<b>409526</b>	polypropylene individually wrapped	STERILE A	750	10.15	0.140	12
-	<b>409526.O</b>	polypropylene individually wrapped	STERILE EO	750	10.15	0.140	12
5	<b>409526.1</b>	polypropylene individually wrapped, labelled	STERILE A	750	10.17	0.140	12



### Dimensions:

A: 38.8 mm; B: 44.2 mm; C: 66.1 mm. Maximum volume: 62 ml. Recommended volume: 50 ml.

## Graduated 60 ml containers 38 x 65 mm

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
<b>409502G</b>	polypropylene	aseptic	600	8.07	0.096	16
<b>409526G</b>	polypropylene, individually wrapped	STERILE A	750	10.30	0.140	12

### Dimensions:

A: 38.8 mm; B: 44.2 mm; C: 66.1 mm.  
Maximum volume: 62 ml.  
Recommended volume: 50 ml.



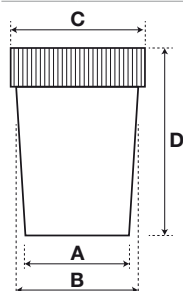


### 150 ml containers (57 x 73 mm) with spoon

Ultra clear polypropylene containers with polyethylene leak proof screw caps. Spoon made of Polystyrene. Graduated in 100 ml increments. Frosted panel on side for easy writing. Standard colour of the cap: red.



mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	409752	polypropylene with PS spoon	no	450	8.14	0.140	16
2	409756	polypropylene individually wrapped with PS spoon	no	350	6.80	0.140	16
2	409756.B	polypropylene individually wrapped with PS spoon	STERILE R	350	6.80	0.140	16



#### Dimensions:

A: 48.3 mm; B: 56.3 mm; C: 62.1 mm; D: 74.3 mm.  
Maximum volume: 150 ml.  
Recommended volume: 125 ml.  
These containers can be supplied sterilized by radiation.



### 150 ml screw cap containers (58 x 69 mm)

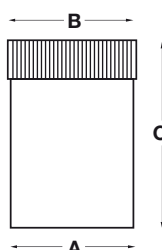
Manufactured in polystyrene or polypropylene depending on the model. Cap manufactured in polyethylene.

Total volume 150 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	0.106
2	409700	polypropylene red cap	STERILE R	360	11.58	0.106



#### Dimensions:

A: 58 mm; B: 62 mm; C: 69 mm.





1



2



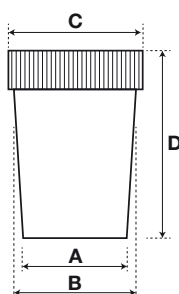
3

## 150 ml containers (57 x 73 mm)



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.

mod.	code	description	sterile	case quantity	case weight	case volume	cases pallet
1	409701	polypropylene labelled	aseptic	450	7.95	0.140	16
2	409702	polypropylene	aseptic	450	7.72	0.140	16
3	409726	polypropylene individually wrapped	STERILE A	350	6.45	0.140	16
-	409726.G	polypropylene individually wrapped	STERILE R	350	6.45	0.140	16



### Dimensions:

A: 48.3 mm; B: 56.3 mm; C: 62.1 mm; D: 74.3 mm.  
 Maximum volume: 150 ml.  
 Recommended volume: 125 ml.

## 150 ml containers uncapped (57 x 73 mm)

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	10.05	0.089	20



SAMPLE CONTAINERS



### Blue containers (60 and 150 ml)

With the same characteristics as codes **409702** (p. 155) and **409502** (p. 153) 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.

Minimum order quantity: 1 pallet = 9,600 units (code **409511**) and 7,200 units (code **409711**).

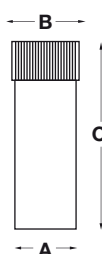
code	description	case quantity	case weight	case volume	cases pallet
<b>409511</b>	60 ml container white label	600	8.20	0.096	16
<b>409711</b>	150 ml container white label	450	7.80	0.140	16



### 200 ml graduated container (57 x 116 mm)

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	7.20	0.140	16



#### Dimensions:

A: 56.5 mm; B: 62.2 mm; C: 115.5 mm;

Maximum volume: 240 ml;

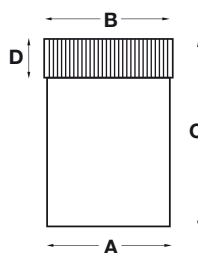
Recommended volume: 210 ml.

### 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	300	9.6	0.090	16



#### Dimensions:

A: 58 mm; B: 62 mm; C: 95 mm; D: 22 mm.



150 ml cup



150 ml container (body)



## Urine container set

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. Bad printed with batch number and expiry date. Easy pouring. We can manufacture sets with boric acid.



code	bag	container	tube	cap	capped	cap colour	label 25 x 35 mm	labelled	case quantity	case weight	case volume
309324.E3	✓	150 ml cup	400705	308102	✗	natural	✗	✗	300	4.15	0.140
309316.E	✓	150 ml cup	400705	308107	✗	green	✓	✗	300	4.50	0.140
309316	✓	150 ml cup	400705	308107	✓	green	✓	✓	300	4.10	0.140
<b>NEW</b> 319324.E13	✓	150 ml cup	2 x 400705 with boric acid	308102 / 308105	✓	natural/blue	✓	✓	300	5.96	0.140
309324.E	✓	150 ml cup	401204	308202	✗	natural	✓	✗	300	4.70	0.140
<b>NEW</b> 309324	✓	150 ml cup	401204	308207	✓	green	✓	✓	300	4.70	0.140
<b>NEW</b> 309324.PS	✓	150 ml cup	301201	308202	✓	natural	✗	✗	300	4.70	0.140
<b>NEW</b> 319324.E10	✓	150 ml cup	300705	308102	✗	natural	✗	✗	300	4.30	0.140
<b>NEW</b> 182289F	✓	150 ml container (body)	301200	305502	✓	natural	✗	✗	400	3.60	0.096
<b>NEW</b> 182294F	✓	150 ml container (body)	300900	307202	✓	natural	✗	✗	300	5.00	0.140

## Disposable cups

Disposable sample cups, for general sample collection. Cups are supplied stacked.

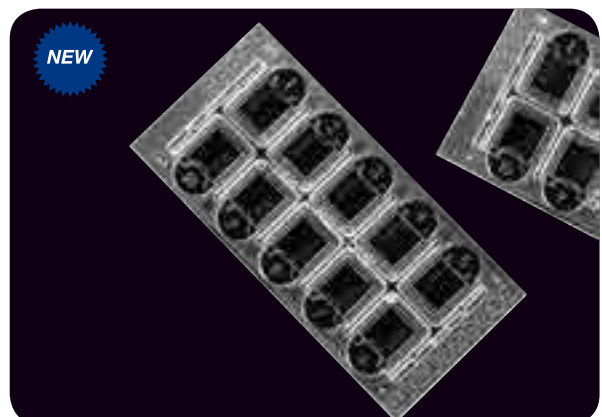
code	volume ml	material	mouth Ø x height	case quantity	case weight	case volume
202248	100	polypropylene	57.5 x 62	50 x 100	7.40	0.080
202317	150	polystyrene	70 x 70	30 x 100	8.32	0.080

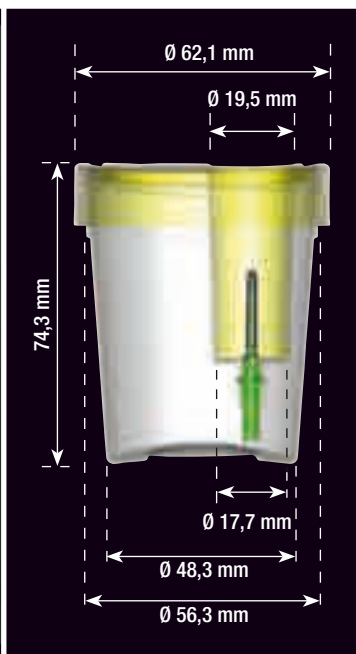


## “Fast read” plate for urinary sediment cell count

Disposable plate for determining  $\mu\text{L}$  cells in the sample. Using this system a smaller number of epithelial cells present in each field can be achieved, reducing the possibility of overlap with other cells. Ensures a more careful and precise result, providing technical staff to determine presence of cellular elements.

code	description	case quantity	case weight	case volume
141746	fast read plate for urinary sediment cell count	100	0,30	0,0008





## Containers and tubes for vacuum system

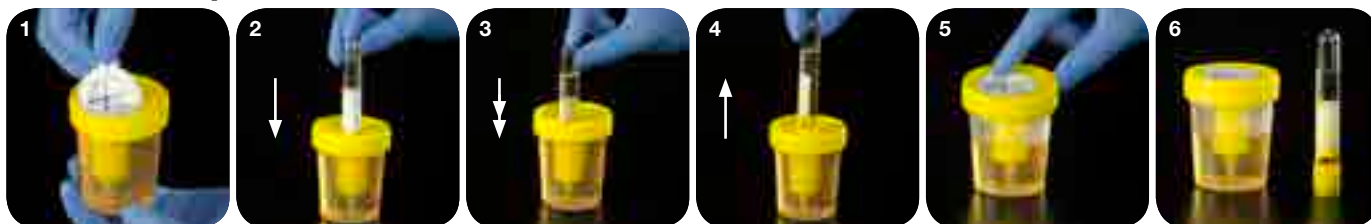
**120 ml containers** designed to use with vacuum tubes. It allows a clean transfer of the urine from the container to the vacuum tube. Manufactured in transparent Polypropylene. Leakproof cap made of yellow polyethylene, with an internal obturating ring. It includes a cannula with a needle inside protected 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.

**Tubes** in PET produced with the inner cap in caoutchouc and outer cap in yellow polyethylene. Incorporate label for sample identification, with white background and a transverse line in yellow to easily see that it is a tube for urine. Printed with the lot, expiration date, CE mark, volume of suction, manufacturer, and only one use symbol.

Label dimensions: 36 x 20 mm. Supplied in foam racks of 100 units, shrink-wrapped and labeled.

code	presentation	sterile	case quantity	case weight	case volume
<b>Container (dimensions: 57x73 mm)</b>					
408702	in bulk	no	475	9.31	0.140
408726	individually wrapped	no	350	7.39	0.140
408702.G	in bulk	STERILE R	250	5.05	0.082
408726.G	individually wrapped	STERILE R	350	7.40	0.140
<b>Vacuum tube (dimensions: 16x100 mm)</b>					
408900.K	vacuum tube, 9 ml	STERILE R	10 x 100	12.60	0.062
408910.K	vacuum tube, 9 ml with boric acid	STERILE R	10 x 100	13.70	0.044
<b>KIT container and vacuum tube</b>					
408720	KIT 408702.G + 408900.K	STERILE R	250	3.90	0.100
408721	KIT 408702.G + 408910.K	STERILE R	250	4.10	0.110
408710	KIT 408702 + 408900.K	CONTAINER NO	TUBE: STERILE R	250	3.90
408711	KIT 408702 + 408910.K	CONTAINER NO	TUBE: STERILE R	250	3.90

## 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.





## System for vacuum collection

Device for vacuum urine collection designed for use with tubes with the vacuum system. Is composed by:

- Transparent polypropylene holder
- Needle adaptor in White colour. The needle is made of stainless steel AISI 304 wrapped with a synthetic rubber protection.
- Polypropylene cannula diameter 2.4-2.5mm
- Individually wrapped

code	total lenght mm	cannula lenght mm	case quantity	case weight	case volume
<b>408914</b>	140	75	1.200	5.20	0.070
<b>408922</b>	220	160	1.200	5.20	0.070

For sterile models, please contact our sales department.



## Rectangular graduated until 3 litres container with handle

Product designed for collection of 24 hours urine samples. Container made of polyethylene and cap of polypropylene.

Brown opaque body and cap depending on the model:

- **408600** Yellow cap with vacuum system
- **408601** Yellow cap with vacuum system with long canula
- **408610** Standard white cap

The three of them are completely leakproof thanks to its sealing ring and ensure a total sealing of the sample.

The vacuum system ensures a clean transfer of the urine from the container to the vacuum tube and prevents the risk of cross contamination in the handling of the sample. It also avoids sample loss by splashing or outpouring.

The container has a handle with ergonomic empty space to facilitate a much more comfortable dump and the manual transport of the sample.

It incorporates a translucent vertical stripe on one side where the graduation allows the control of the level of sample containing. Graduated each 100 ml, to 3,000 ml.

Total capacity: 3.3 l.

Unit weight (without cap): 115 g ( $\pm$  3 g).

Cap weight (vacuum system): 8.2 g ( $\pm$  0.2 g).

Cap weight (standard system): 5.5 g ( $\pm$  0.2 g).

code	presentation	sterile	case quantity	case weight	case volume	cases pallet
<b>408600*</b>	3 l rectangular container with vacuum system	no	30	4.57	0.150	12
<b>408601*</b>	3 l rectangular container with vacuum system and long canula	no	30	4.57	0.150	12
<b>408610</b>	standard 3 l rectangular container	no	30	4.52	0.150	12

\*Suitable with vacuum tubes **408900** and **408910**.



## Security screw cap containers



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	8.84	0.090
2	<b>202841</b>	40	50	45	43	600	8.41	0.090
3	<b>202842</b>	60	76	45	60	500	8.00	0.110
4	<b>202843</b>	90	92	48	75	400	7.32	0.101
5	<b>202848</b>	90	108	53	68	300	6.35	0.102
6	<b>202844</b>	120	146	53	78	300	7.50	0.102



## EUROTUBO® Leak proof screw cap containers

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.

Rigid plastic containers. Methods to test the effectiveness of closures.

**Supplied uncapped.**



Find more information about this product in page 87



## Cylindrical container graduated up to 2 litres with handle

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 liner, **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.

Codes **408001.1** and **408001.0** are 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 liner	unscrewed	no	no	65	34	4.50	0.140
<b>408001.0</b>	natural	white, with liner	screwed	yes	STERILE R	65	34	4.50	0.140
<b>408001-86</b>	natural	black + plug	unscrewed	no	no	86	33	4.70	0.140
<b>408001OBT</b>	natural	black + plug	unscrewed	no	no	66.5	33	4.20	0.140
<b>408001O/T</b>	natural	black + plug	screwed	no	no	66.5	33	4.59	0.140
<b>408001.1</b>	natural	white, with liner	screwed	yes	no	65	34	4.38	0.140



## Rectangular containers, graduated up to 2 litres

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.

Models with white cap, have polexan liner, 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 liner	unscrewed	no	no	65	43	6.00	0.140
407001/T	natural	white, with liner	screwed	no	no	65	43	6.00	0.140
407008	natural	white, with liner	screwed	yes	no	65	43	6.40	0.140
407008.O	natural	white, with liner	screwed	yes	STERILE R	65	43	6.40	0.140
407001OBT	natural	black + plug	unscrewed	no	no	66	41	5.90	0.140
407008OBT	natural	black + plug	screwed	yes	no	66	41	5.90	0.140
407003	brown	white, with liner	unscrewed	no	no	65	43	6.00	0.140

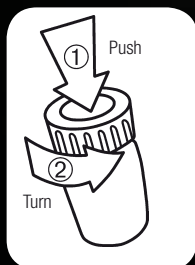




### Squared containers, graduated up to 2.7 l

High density polyethylene container and cap. Ideal for 24 hour urine collection and other liquid samples.  
 The ribbed cap features a polexan liner, 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.  
 Length x width: 130 x 126 mm (±1 mm).  
 Height, cap excluded: 249 mm (±1 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 liner	unscrewed	no	no	64	34	5.52	0.150
407005/T	natural	white, with liner	screwed	no	no	64	34	5.52	0.150
407005.O	natural	white, with liner	screwed	yes	STERILE R	64	34	5.70	0.152
407006	brown	white, with liner	unscrewed	no	no	64	34	5.70	0.154
407006/T	brown	white, with liner	screwed	no	no	64	34	5.50	0.150



## Security screw cap containers



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 **444603202** 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 tamper evident</b>								
<b>444603202</b>	white	natural	69.0	31.0	6.2	1,100	11.32	0.103
<b>1. Capacity: 30 ml. Ø Pilfer mouth 28, security closure childproof system</b>								
<b>444603204</b>	white	white	60.5	35.6	7.0	600	10.00	0.078
<b>2. Capacity: 60 ml. Ø Pilfer mouth 28, security closure childproof system</b>								
<b>444603300</b>	white	natural	93.7	37.6	9.5	600	11.80	0.110
<b>444602903</b>	white	white	93.7	37.6	9.5	600	8.00	0.110
<b>444602901</b>	blue	natural	87.5	37.6	9.5	600	7.50	0.110
<b>444602801</b>	blue	white	87.5	37.6	9.5	600	7.50	0.110
<b>3. Capacity: 125 ml. Ø Pilfer mouth 28, security closure childproof system</b>								
<b>444603402</b>	white	natural	114.8	48.0	13.6	300	5.15	0.110

We can supply other colours if required.



## 25 ml 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
<b>430130</b>	standard graduated cup	60 x 100	9.29	0.061
<b>430130.1</b>	reinforced graduated cup	60 x 100	13.00	0.065
<b>430100.1</b>	push cover	3 x 2,000	5.80	0.060



See chapter 9. Sample storage





1. Open      2. Open at 90°      3. Closed but non tampered      4. Tampered lid      5. Untampered

## Hinged lid container

Specially designed for **milk, wine and agroalimentary oil**, although 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.



For coloured versions, please ask our commercial department



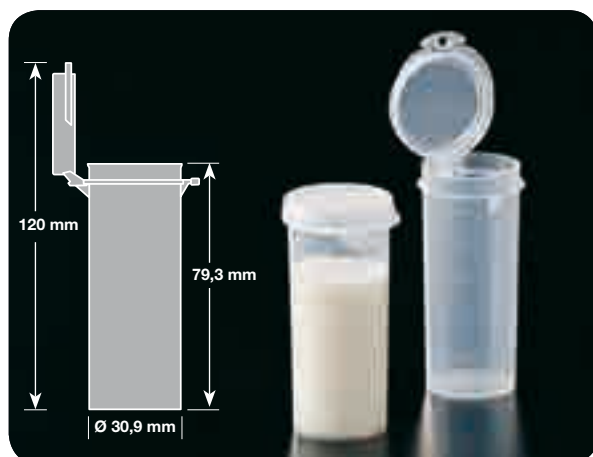
## Hinged lid container, 50 ml

Graduated up to 50 ml.

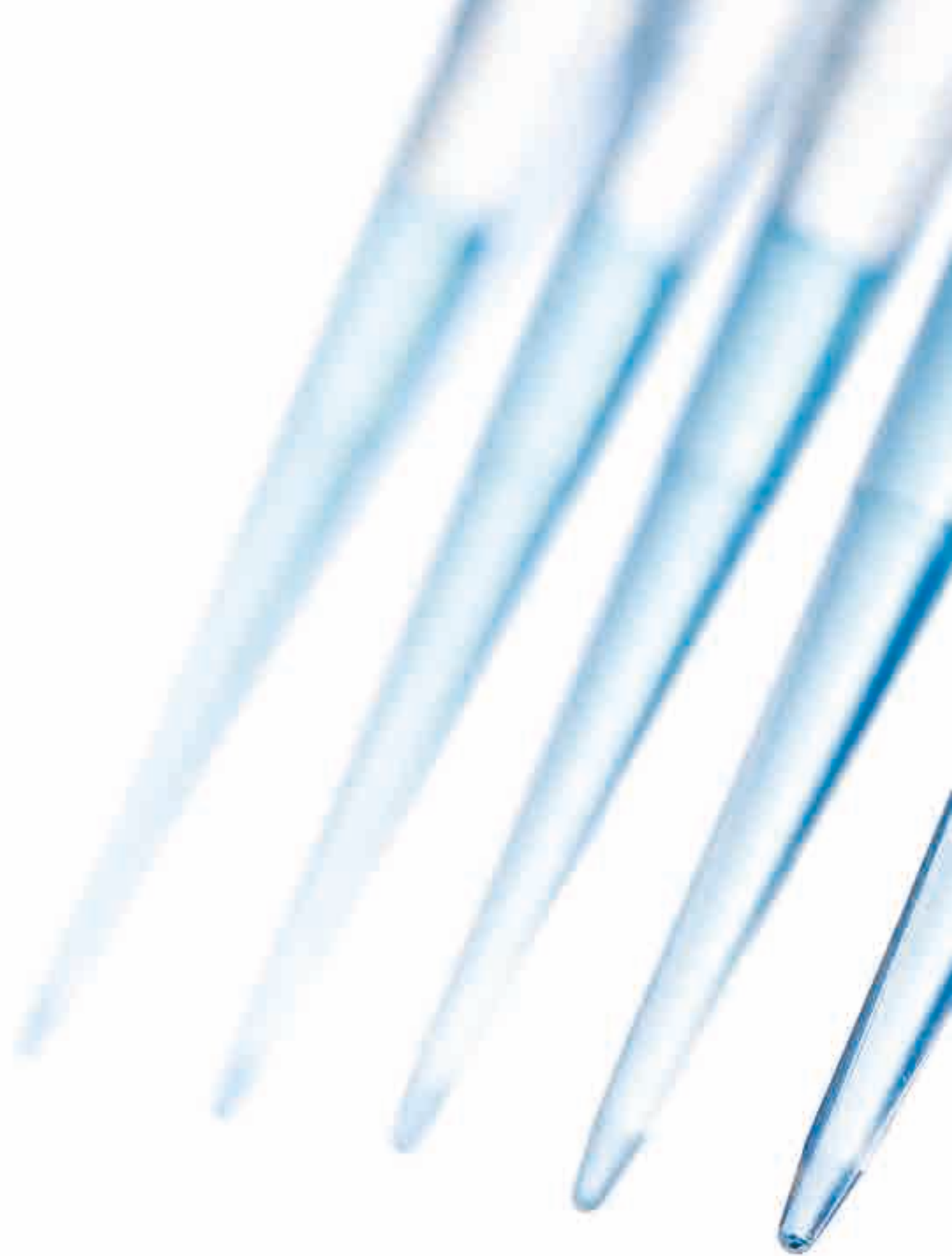
Code **410046** is supplied uncapped.

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	0.140	12
<b>410056</b>	50 ml container individually wrapped	800	7.5	0.140	12

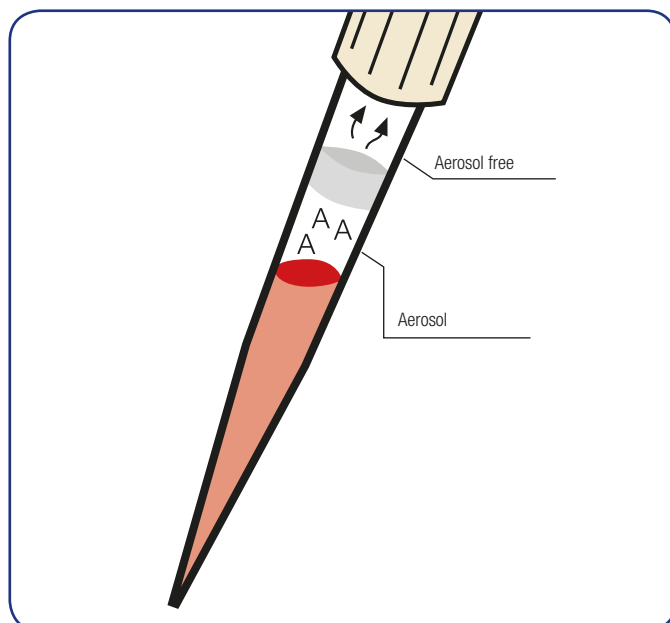
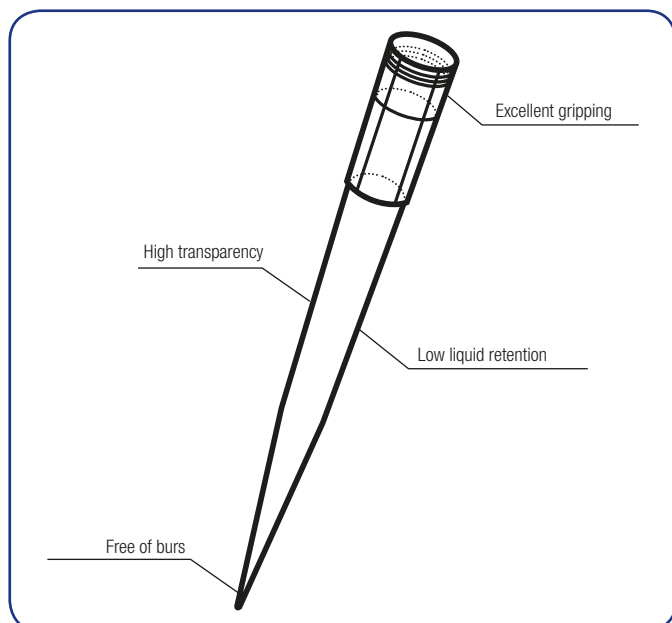


We can manufacture special racks in aluminium or stainless steel under request. Please ask the commercial department.









## 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**

## 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 or Extra 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 transparent with hinged lid.

\*Excepting code **327-26** (page 174), with blue rack.



## 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: transparent base / transparent lid.

### 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	3.80	0.026
● <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	3.70	0.026
●●● <b>327-19</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.26	0.010

Code **326-19** 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**.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>301-01</b>	tips in bulk	no	15 x 1,000	3.00	0.026
● <b>301-01R</b>	96 tips rack	no	10 x 96	1.80	0.010
● <b>301-01F</b>	filter tips in bulk	no	15 x 1,000	2.92	0.023
●●● <b>301-01FR</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.25	0.012

Tips in bulk: minimum unit sale: 1 bag.

Code **301-01F** suitable for Eppendorf® Research Plus.



## 0.5 - 20 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**.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>301-11</b>	tips in bulk	no	25 x 1,000	4.80	0.050
● <b>301-10</b>	96 tips rack	no	10 x 96	1.82	0.009
●●● <b>301-09</b>	96 tips rack	<b>STERILE R</b>	10 x 96	1.80	0.009
● <b>326-37</b>	filter tips in bulk	no	25 x 1,000	5.40	0.035
●●● <b>327-37R</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.25	0.010

Tips in bulk: minimum unit sale: 1 bag.



## 2 - 20 µl tip

Natural colour universal tip. Eppendorf® type.

Available without filter (2-200µl).

See our codes **200072**.

### Suitable (not exclusive)

Eppendorf®, Biohit®, Finnpiquette®, Gilson®, Socorex®, Brand®, HTL®.

Rack made of **autoclavable** polypropylene up to **121 °C**.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
●●● <b>200010FR</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	2.00	0.010

Colour codes:

- RNAse and DNase free
- Metal free
- Pyrogen free





## 2 - 30 µl tip

Natural colour universal filter tip, bevelled.  
Gilson® type. Identical to the code 200078 (page 172).

### 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**.  
STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>327-36</b>	filter tips in bulk	no	25 x 1,000	9.50	0.071
●●● <b>327-36R</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.59	0.009

Tips in bulk: minimum unit sale: 1 bag.



## 2 - 100 µl tip

Natural colour universal filter tip, bevelled.  
Gilson® type. Identical to the code 200078 (page 172).

### Suitable (not exclusive)

Gilson® P100 P200, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpiquette®, Genex®, Jencons®, Nichiryo®, HTL®, etc.

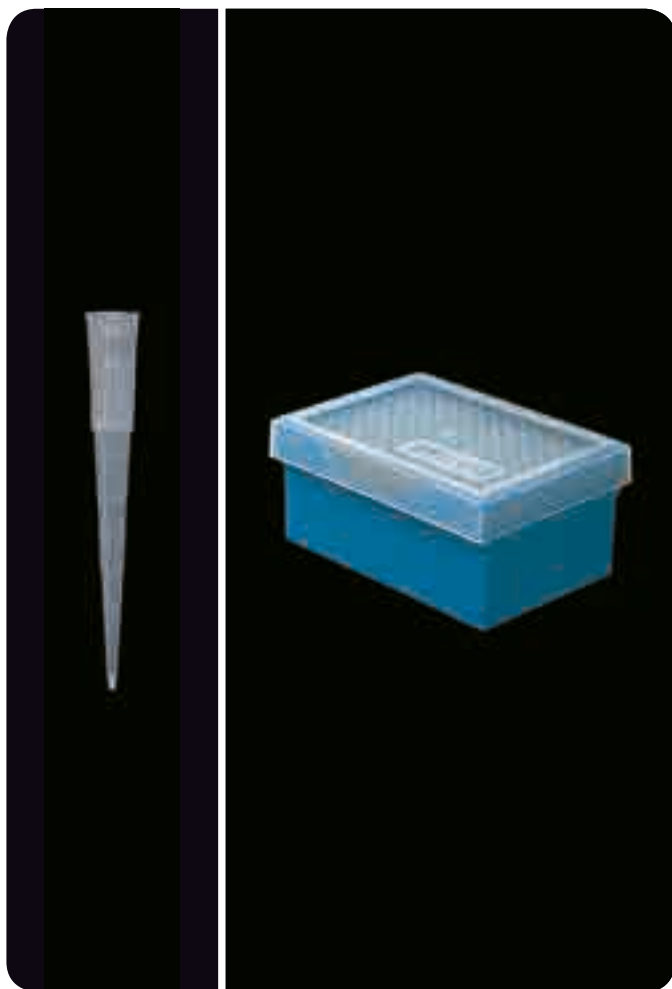
Rack made of **autoclavable** polypropylene up to **121 °C**.  
STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>327-23</b>	filter tips in bulk	no	25 x 1,000	9.00	0.071
●●● <b>327-24</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.96	0.010

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

- RNAse and DNase free
- Metal free
- Pyrogen free



## 2 - 200 µl tip

Natural colour universal tip, bevelled.  
Gilson type®.

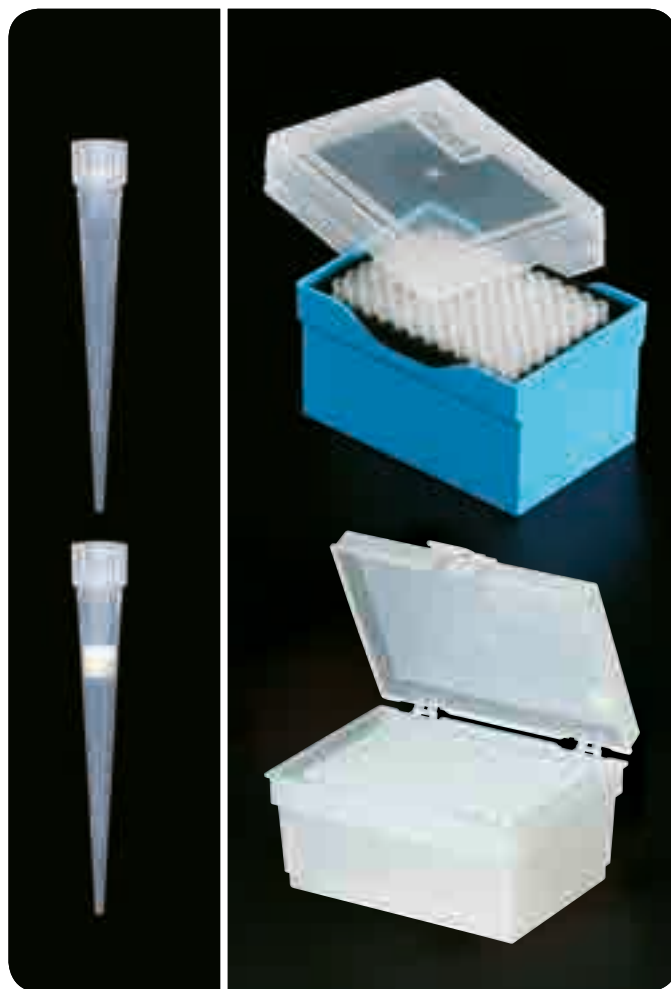
### Suitable (not exclusive)

Gilson® P20 P100 P200, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpipette®, 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	9.20	0.071
● <b>199078RC</b>	96 tips rack	no	10 x 96	1.96	0.009
●●● <b>199078N</b>	96 tips rack	<b>STERILE R</b>	10 x 96	1.96	0.009

Tips in bulk: minimum unit sale: 1 bag.



## 2 - 200 (100) µl tip

Natural colour universal tip. Eppendorf® type.

### Suitable (not exclusive)

Eppendorf®, Gilson®, Brand®, Biohit®, Dsg®, Elkay®, Finnpipette®, Genex®, Jencons®, Kartell®, Nichiryo®, Socorex®, HTL®.

Rack made of **autoclavable** (up to 121 °C) polypropylene.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>200072</b>	tips in bulk	no	25 x 1,000	9.10	0.071
● <b>199014RC</b>	96 tips rack	no	10 x 96	1.93	0.010
●●● <b>199014N</b>	96 tips rack	<b>STERILE R</b>	10 x 96	1.97	0.010

### 2 - 100 µl filter tip

● <b>327-33</b>	tips in bulk	no	25 x 1,000	10,00	0.071
●●● <b>327-33R</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.97	0.010

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

- RNAse and DNase free
- Metal free
- Pyrogen free



## 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® (except Multichannel), Genex®, Jencons®, Nichiryo®, HTL®, Socorex® serie Akura .

Rack made of **autoclavable** (up to **121 °C**) polypropylene.

Rack without filter: transparent lid and blue base.

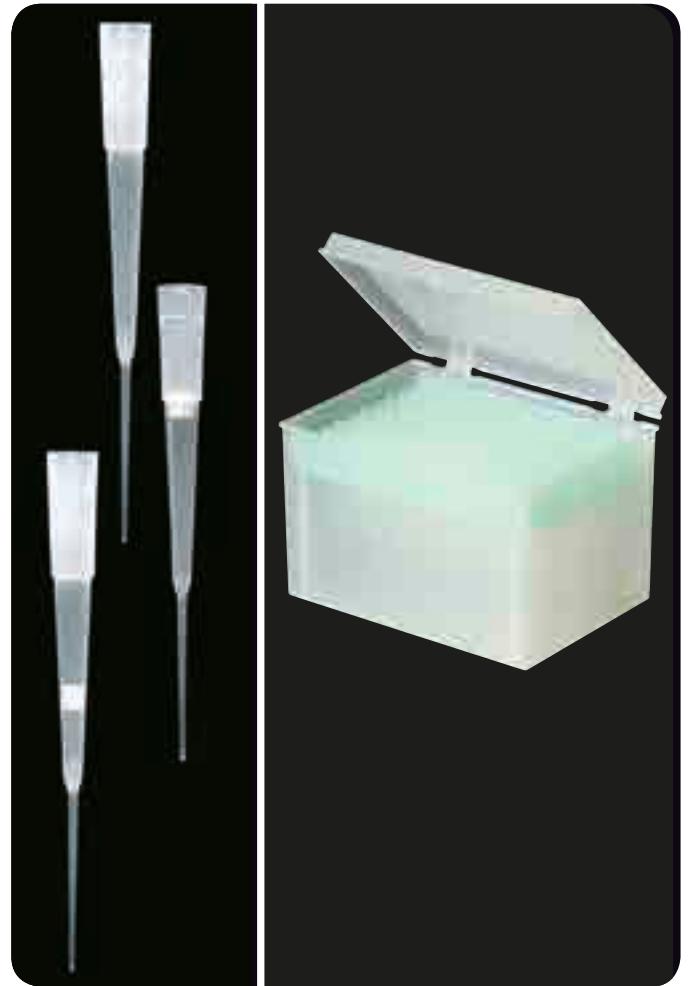
STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
<b>Natural colour:</b>					
● <b>327-34</b>	filter tips in bulk	no	25 x 1,000	9.20	0.083
●●● <b>327-34R</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.45	0.010
<b>Yellow colour:</b>					
● <b>200016</b>	tips in bulk	no	25 x 1,000	8.81	0.072
● <b>200016B</b>	single tips individually wrapped	<b>STERILE R</b>	200	0.19	0.002
● <b>200016R</b>	96 tips rack	no	10 x 96	1.94	0.009

Code **327-34** minimum unit sale: 1 bag.

Colour codes:

- RNase and DNase free
- Metal free
- Pyrogen free



## 0.1 - 200 µl tip

Universal natural colour tip with collar for gel.

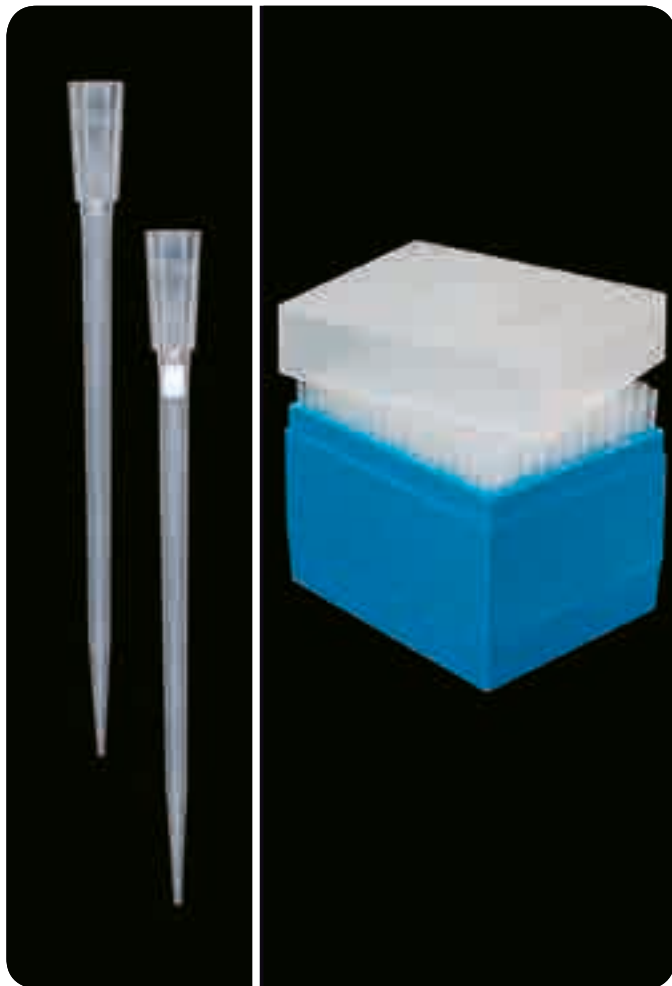
### Suitable (not exclusive)

Pipetman®, Eppendorf®, Titertek®, Biohit®, Socorex®, Nichiryo®, Costar Corning®, Oxford®, Rainin®, Finnpiquette®.

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	9.20	0.050
●●● <b>200079R</b>	96 tips rack	<b>STERILE R</b>	10 x 96	1.20	0.010
●●● <b>200079F</b>	96 tips rack filter 0.1-20 µl	<b>STERILE R</b>	10 x 96	1.80	0.010
●●● <b>200079FS</b>	96 tips rack filter 0.1-100 µl	<b>STERILE R</b>	10 x 96	1.80	0.010

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®, Finnpiquette®, 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	3.50	0.050
●●● <b>327-26</b>	204 tips rack filter	<b>STERILE R</b>	8 x 204	2.23	0.014

Tips in bulk: minimum unit sale: 1 bag.



## 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®.

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	4.20	0.020

Minimum unit sale: 1 bag.

Colour codes:

- RNAse and DNAse free
- Metal free
- Pyrogen free





## 5 - 200 µl tip

Eppendorf® universal tip.

### Suitable (not exclusive)

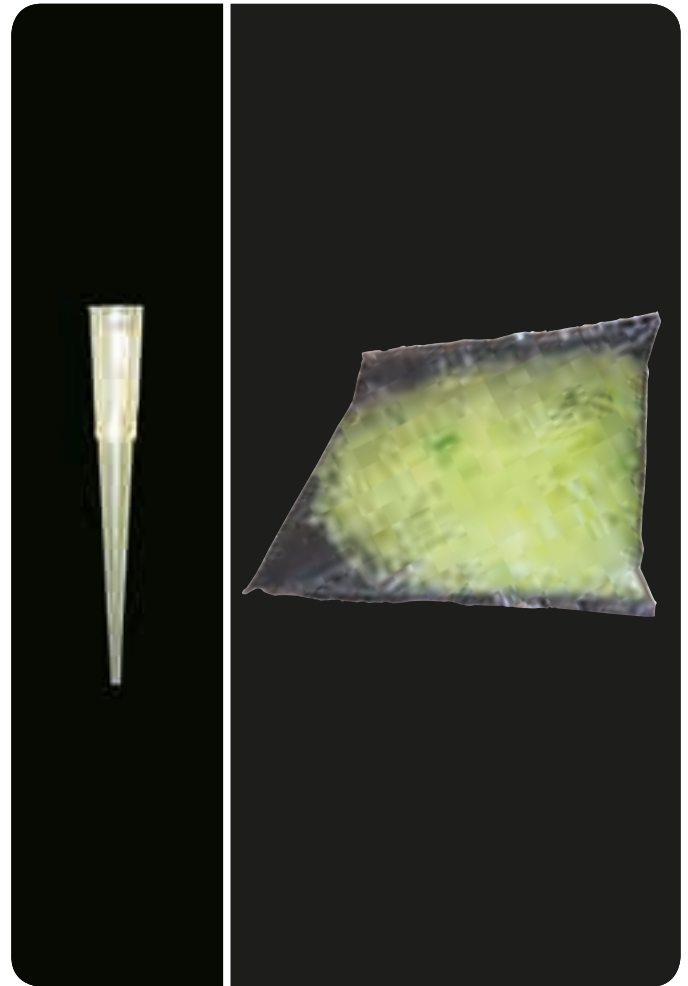
Eppendorf®, Gilson®, Brand®, Biohit®, Dsg®, Elkay®, Finnpipette®, Genex®, Jencons®, Nichiryo®, Socorex®, HTL®.

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	8.75	0.072
● <b>200009B</b>	single tips individually wrapped	<b>STERILE R</b>	200	0.19	0.002
● <b>200009R</b>	96 tips rack	no	10 x 96	1.98	0.009

Colour codes:

- RNAse and DNAse free
- Metal free
- Pyrogen free



## 5 - 200 µl tip

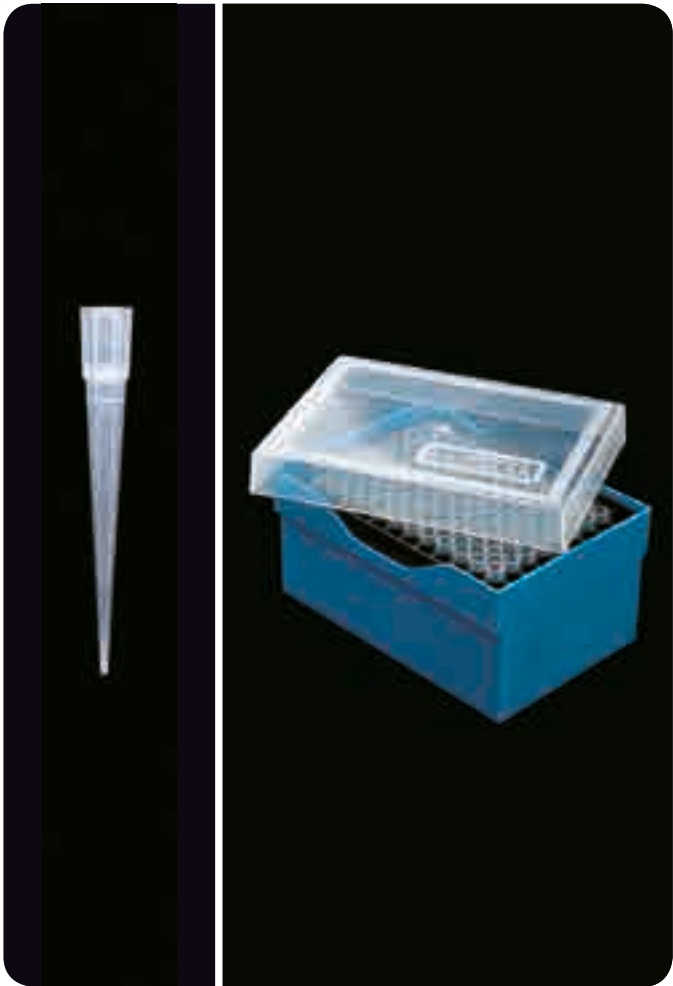
Yellow universal tip, Gilson® type.

### Suitable (not exclusive)

Gilson®, Eppendorf®, Biohit®, Dsg®, Elkay®, Finnpipette®, Genex®, Jencons®, Nichiryo®, HTL®.

code	description	sterile	case quantity	case weight	case volume
● <b>199083</b>	tips in bulk	no	25 x 1,000	9.00	0.071

Minimum unit sale: 1 bag.



## 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	8.30	0.067
● <b>199076RC</b>	96 tips rack	no	10 x 96	1.82	0.010

Tips in bulk: minimum unit sale: 1 bag.



## 2 - 200 µl tip

Yellow universal tip with crown and with a 50 µl margin to prevent any accidental overaspiration.

### Suitable (not exclusive)

Eppendorf®, Socorex®, Gilson® except NEO model, Nichiryo®, Biohit®, Brand®, Jencons®, Thermo®, DSG®, Elkay®, HTL®, Finnpiquette®, Genex®.

Translucent rack made of **autoclavable** polypropylene up to **121 °C**; with hinged lid.

code	description	sterile	case quantity	case weight	case volume
● <b>200076</b>	tips in bulk	no	24 x 1,000	8.82	0.071
● <b>200076R</b>	tips in rack	no	10 x 96	1.98	0.010
● ● ● <b>200076RF</b>	filter tips in rack	<b>STERILE R</b>	10 x 96	2.04	0.010

Tips in bulk: minimum unit sale: 1 bag.

Colour codes:

- RNAse and DNAse free
- Metal free
- Pyrogen free



## 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	10.50	0.071
● <b>200017R</b>	96 tips rack	no	10 x 96	1.80	0.010

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	6.90	0.071
● <b>200019R</b>	96 tips rack	no	10 x 96	1.80	0.010

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.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>200077</b>	tips in bulk	no	20 x 1,000	9.70	0.071
● <b>200077R</b>	96 tips rack	no	10 x 96	1.94	0.009
● <b>200077F</b>	filter tips in bulk	no	20 x 1,000	9.90	0.071
●●● <b>200077FR</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.92	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**.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
<b>Blue colour:</b>					
● <b>200012</b>	tips in bulk	no	10 x 1,000	7.95	0.085
● <b>200012B</b>	single tips individually wrapped	<b>STERILE R</b>	175	0.27	0.004
● <b>200012R</b>	96 tips rack	no	10 x 96	2.36	0.010
<b>Natural colour:</b>					
● <b>200070</b>	tips in bulk	no	10 x 1,000	8.00	0.083
● <b>200070R</b>	96 tips rack	no	10 x 96	2.40	0.009
●●● <b>200070NR</b>	96 tips rack	<b>STERILE R</b>	10 x 96	2.38	0.010
● <b>327-30</b>	filter tips in bulk	no	10 x 1,000	8.50	0.083
●●● <b>327-30R</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	1.99	0.010

Codes **200070**, **200012** and **327-30** minimum unit sale: 1 bag.



## 50 - 1250 µl tip

(50-1000 µl filter tips).

Natural colour universal tip.

**Suitable (not exclusive):** Socorex®, Gilson®, Nichiryo®, Brand®, HTL®, Biohit®, Eppendorf® Research, DSG®, Elkay®, Finnpiquette®, Handrop®.

Rack made of polypropylene, **autoclavable** up to **121 °C**.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

code	description	sterile	case quantity	case weight	case volume
● <b>200071</b>	tips in bulk	no	10 x 1,000	8.50	0.083
●●● <b>200071NR</b>	96 tips rack	<b>STERILE R</b>	10 x 96	2.50	0.010
●●● <b>327-31R</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	2.80	0.010

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**.

Rack without filter: transparent lid and blue base.

STANDARD filter: hinged transparent lid and transparent base.

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	9.96	0.085
● <b>200080.1R</b>	96 tips rack	no	10 x 96	2.62	0.015
<b>Natural colour:</b>					
● <b>200082</b>	tips in bulk	no	10 x 1,000	10.80	0.083
● <b>200082R</b>	96 tips rack	no	10 x 96	2.66	0.015
●●● <b>200082NR</b>	96 tips rack	<b>STERILE R</b>	10 x 96	2.62	0.013
● <b>200082F</b>	filter tips in bulk	no	10 x 1,000	11.20	0.083
●●● <b>327-16</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	2.19	0.013

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	8.10	0.083
● <b>200029R</b>	96 tips rack	no	10 x 96	2.40	0.010
● <b>200029F</b>	filter tips in bulk	no	10 x 1,000	8.10	0.083
●●● <b>200029RF</b>	96 tips rack filter	<b>STERILE R</b>	10 x 96	2.40	0.013

Tips in bulk: minimum unit sale: 1 bag.



## 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	6.90	0.071

Minimum unit sale: 1 bag.



Colour codes:

- RNAse and DNase free
- Metal free
- Pyrogen free



### 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	10.40	0.071

Minimum unit sale: 1 bag.



### 200 - 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	2.75	0.071

Minimum unit sale: 1 bag.



### 100 - 1,000 µl tip

Natural colour universal tip, bevelled and graduated.

#### For use (but not limited to)

Gilson®, Rainin®, Finnpipette®, Nichiryo®, Eppendorf®, Biometra®.

code	description	sterile	case quantity	case weight	case volume
●●● <b>200022</b>	tips in bulk	no	10 x 1,000	10.90	0.080

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 by radiation and individually wrapped**.

code	description	sterile	case quantity	case weight	case volume
M-200	150 ml	no	50	0.73	0.010
M-210	150 ml	STERILE R	50	0.73	0.010
M-203	25 ml	no	5 x 10	12.58	0.098



See our plates for liquid handling on chapter 2. **Molecular Biology**

Pipetting reservoir

8 and 12 channel reservoir, 48 ml, PS, **sterile by radiation**. **Individually wrapped**.

Dimensions:

**330089**: 83 x 126 x 13 mm

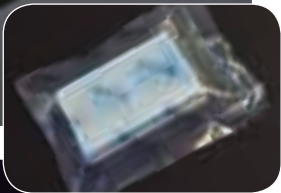
**330129**: 126 x 83 x 13 mm

code	description	sterile	case quantity	case weight	case volume
330089	8 channel, 48 ml	STERILE R	10	0.23	0.004
330129	12 channel, 48 ml	STERILE R	10	0.23	0.004

Double-sided pipetting reservoir

Double-sided reagents reservoir.  
By one side is a multichannel reservoir that allows pipetting up to 12 different reagents and by the other side is an only reservoir to use with one reagent type.  
Easy pour-spouts.  
Its tapered reservoir bottoms form into a narrow trough to aid full sample recovery. It also has tabs to prevent stacked reservoirs from sticking together.  
It incorporates a lid (1).

code	description	case quantity	case weight	case volume
M-205	Double-sided reagents reservoir	25	1.07	0.008



NEW

1



## 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® Acura 835.

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	5.90	0.088
● <b>199075</b>	50 tips rack	no	4 x 50	1.98	0.015
●●● <b>200075RF</b>	50 tips rack filter	<b>STERILE R</b>	4 x 50	2.50	0.015



## 1 - 5 ml macrotip

Natural colour universal macro tip with collar.  
Socorex® type.

### For use (but not limited to)

Nichiryo®, Oxford®.

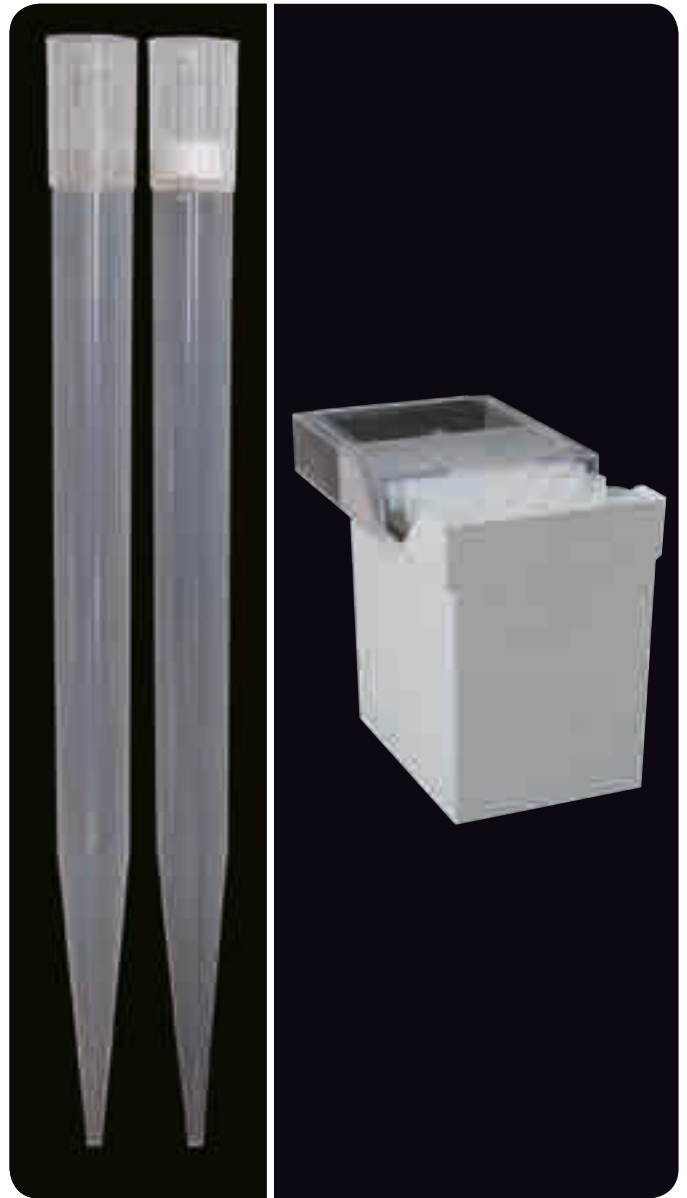
code	description	sterile	case quantity	case weight	case volume
<b>162005*</b>	tips in bulk	no	14 x 250	9.80	0.096
<b>662005</b>	single tips individually wrapped	<b>STERILE R</b>	250	0.90	0.009

\* Minimum unit sale: 250.

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	5.78	0.085
● <b>200083R</b>	50 tips rack	no	4 x 50	2.10	0.015

## 1 - 5 ml macrotip

Natural colour universal macro tip with collar.  
Finnipette® type.

### For use (but not limited to)

Brand®, Labsystem®.

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	6.76	0.085
● <b>200028R</b>	50 tips rack	no	4 x 50	2.20	0.015
●●● <b>200028RF</b>	50 tips rack filter	<b>STERILE R</b>	4 x 50	2.50	0.015

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)

Labsystem®, Socorex®.

Rack made of polypropylene **autoclavable** up to **121 °C**.

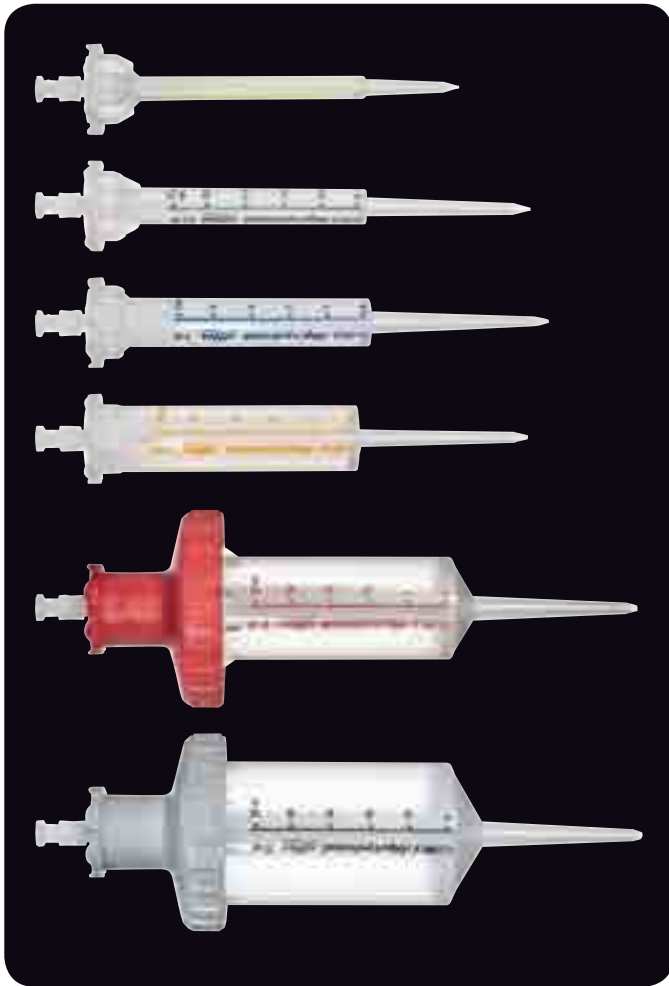
Transparent lid and marble base. Sliding lid.

	code	description	sterile	case quantity	case weight	case volume
●	<b>200015</b>	tips in bulk	no	10 x 100	7.24	0.087
●	<b>200015R</b>	25 tips rack	no	4 x 25	2.25	0.015
●●●	<b>200015RF</b>	25 tips rack filter	<b>STERILE R</b>	4 X 25	2.20	0.015



Colour codes:

- RNAse and DNase free
- Metal free
- Pyrogen free



- 1
- 2
- 3

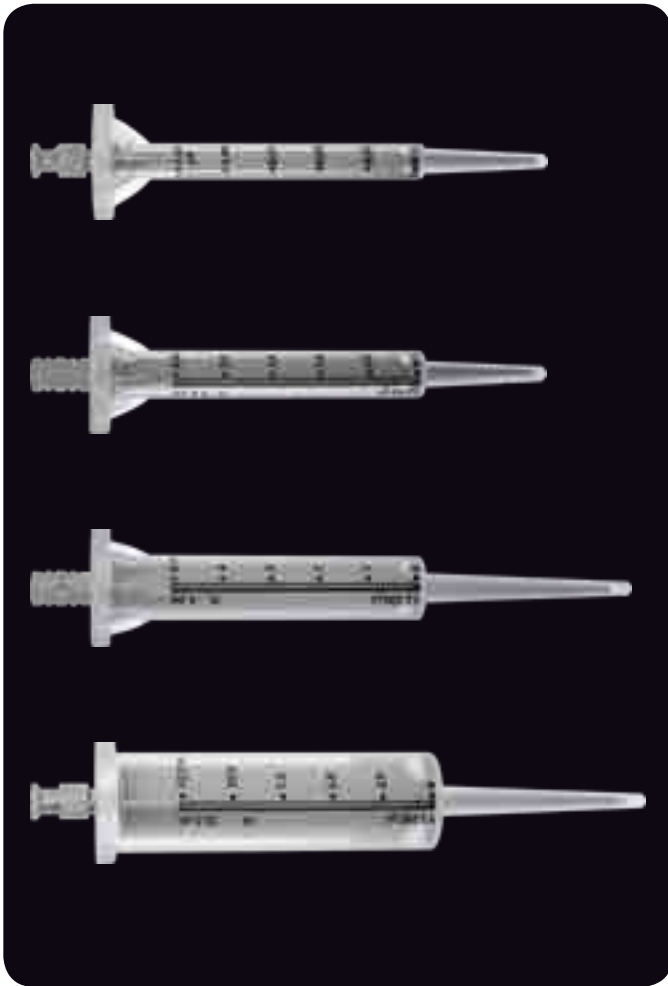
### Ritips® professional

Different capacities.  
Different graduation colour according to volume.  
Each box of 25 ml and 50 ml contains a free of charge adapter.

**For use (but not limited to)**  
Biohit® eLine® Lite and Pro, Brand® HandyStep electronic, Eppendorf® Repeater Plus, Multipette Pro, and Multipette 4780, Nichimate® Stepper (Nichiryo®), Gilson® Distriman, StepMate®, Ripette®, etc.

When used with Multipette plus and Multipette Pro the display dispenser is inoperative.

	code	description	case quantity	case weight	case volume
NON STERILE	<b>317-314.1</b>	Multitips 1.0 ml	100	0.37	0.006
	<b>317-315.1</b>	Multitips 2.5 ml	100	0.48	0.006
	<b>317-316.1</b>	Multitips 5 ml	100	0.51	0.006
	<b>317-317.1</b>	Multitips 10 ml	100	0.62	0.006
	<b>317-318.1</b>	Multitips 25 ml	25	0.46	0.006
	<b>317-319.1</b>	Multitips 50 ml	25	0.51	0.006



- 1
- 2
- 3



sterile models

### Ritips® standard

Different capacities, standard and sterile models.  
Red graduations.

**For use (but not limited to)**  
Eppendorf® Multipette 4780, Brand® Handystep and Handystep Electronic, Nichimate® Stepper, Ripette® and Ripette® GenX, Minilab® 100/101, Stepmate®, Easystep®, Gilson® Distriman®, etc.

Sterile models are **Rnase, Dnase and pyrogen free**.  
Individually wrapped.

	code	description	case quantity	case weight	case volume
NON STERILE	<b>316-314.1</b>	Combitip 1,25 ml	100	0.48	0.006
	<b>316-315.1</b>	Combitip 2,5 ml	100	0.53	0.007
	<b>316-316.1</b>	Combitip 5 ml	100	0.69	0.006
	<b>316-317.1</b>	Combitip 12,5 ml	100	0.87	0.007
STERILE R	<b>316-315.2</b> ●●	Combitip 2,5 ml	100	0.66	0.009
	<b>316-316.2</b> ●●	Combitip 5 ml	100	0.82	0.009
	<b>316-317.2</b> ●●	Combitip 12,5 ml	100	1.02	0.009

Colour codes:  
● RNase and DNase free  
● Metal free  
● Pyrogen free



## Single variable volume NICHIPET EXII

① Fully **autoclavable** and UV rays resistant pipettes. Easy digital volume setting. Ceramic piston for volumes bigger than 200  $\mu\text{L}$ . Easy lock with one hand and thermal insulation of the handle. Easy calibration. PTFE Chamber that maintains its tightness and reproducibility for a long time.

code EXII	volume range	increments $\mu\text{L}$	accuracy %	precision %	case weight	case volume
<b>NPX2-2</b>	0.1-2 $\mu\text{L}$	0.002	3-12	1-6	0.22	0.0013
<b>NPX2-10</b>	0.5-10 $\mu\text{L}$	0.01	1-4	0.5-3	0.22	0.0013
<b>NPX2-20</b>	2-20 $\mu\text{L}$	0.02	1-5	0.4-3	0.22	0.0013
<b>NPX2-100</b>	10-100 $\mu\text{L}$	0.1	0.8-2	0.3-1	0.22	0.0013
<b>NPX2-200</b>	20-200 $\mu\text{L}$	0.2	0.8-1	0.2-0.5	0.23	0.0013
<b>NPX2-1000</b>	100-1,000 $\mu\text{L}$	1	0.7-1	0.2-0.5	0.25	0.0013
<b>NPX2-5000</b>	1-5 ml	10	0.6-1	0.2-0.3	0.28	0.0013
<b>NPX2-10ML</b>	1-10 ml	10	0.4-2	0.2-0.4	0.22	0.0013

② Model **EXII Plus** is specifically designed for using with chemical solvents without any danger of corrosion. A Perfluoro rubber O-ring is installed in **Nichipet EXII Plus**.

③ Multichannel pipettes are also available under request.



## Single channel and variable volume NICHIPET PREMIUM pipettes

Single channel and variable volume NICHIPET PREMIUM pipettes

These pipettes have the same features as NICHIPET EXII, and the following advantages: Nozzle with a high level of tolerance to abrasion, ceramic piston made of non-corrosive materials, and body made as solvent resistant. 4 position to lock the volume.

*HyperBlow* system to improve dispensation efficiency.

Body designed to minimize fatigue and corrosion resistance ejector.

### 5-year warranty

code	volume range	increments $\mu\text{L}$	accuracy %	precision %	case weight	case volume
<b>NPP-2</b>	0,1-2 $\mu\text{L}$	0,002	3-12	1-6	0,23	0,0013
<b>NPP-10</b>	0,5-10 $\mu\text{L}$	0,01	1-4	0,5-3	0,23	0,0013
<b>NPP-20</b>	2-20 $\mu\text{L}$	0,02	1-5	0,4-3	0,23	0,0013
<b>NPP-100</b>	10-100 $\mu\text{L}$	0,1	0,8-2	0,3-1	0,23	0,0013
<b>NPP-200</b>	20-200 $\mu\text{L}$	0,2	0,8-1	0,2-0,5	0,23	0,0013
<b>NPP-1000</b>	100-1,000 $\mu\text{L}$	1	0,7-1	0,2-0,5	0,27	0,0013
<b>NPP-5000</b>	1-5 ml	10	0,6-1	0,2-0,3	0,24	0,0013
<b>NPP-10000</b>	1-10 ml	10	0,4-2	0,2-0,4	0,24	0,0013



## HANDROP DIGITAL - SC

Single channel variable volume digital pipettes with digital display.

Precise volume selector.

Easy calibration and maintenance.

Lightweight and ergonomic design with tip ejector.

code	volume range $\mu$ l	increments $\mu$ l	accuracy %	precision %	case weight	case volume
<b>770005</b>	0.1 - 2.5	0.05	2.5 - 12	2 - 5	0.19	0.001
<b>770000</b>	0.5 - 10	0.1	1.0 - 2.5	0.8 - 1.5	0.19	0.001
<b>770080</b>	2 - 20	0.5	0.9 - 3.0	0.4 - 2.0	0.19	0.001
<b>770050</b>	10 - 100	1	0.8 - 3.0	0.15 - 1.5	0.20	0.001
<b>770070</b>	20 - 200	1	0.6 - 3.0	0.15 - 1.0	0.19	0.001
<b>770060</b>	100 - 1,000	5	0.6 - 2.0	0.2 - 0.7	0.20	0.001
<b>770040</b>	200 - 1,000	5	0.6 - 0.9	0.2 - 0.3	0.19	0.001
<b>770110</b>	1 - 5 ml	0.05 ml	0.5 - 0.7	0.15 - 0.3	0.21	0.001



## HANDROP DIGITAL - MC

8 and 12 channel variable volume digital pipettes with digital display.

Precise volume selector.

Easy calibration and maintenance.

Lightweight and ergonomic design with tip ejector.

code	volume range $\mu$ l	increments $\mu$ l	accuracy %	precision %	case weight	case volume
<b>8 channels</b>						
<b>770210</b>	0.5 - 10	0.1	1.0 - 4.0	1.5 - 4.0	0.36	0.0015
<b>770220</b>	5 - 50	0.5	1.0 - 3.0	0.5 - 2.0	0.36	0.0015
<b>770240</b>	50 - 300	5	0.7 - 1.5	0.25 - 0.8	0.36	0.0015
<b>12 channels</b>						
<b>770310</b>	0.5 - 10	0.1	1.0 - 4.0	1.5 - 4.0	0.30	0.0015
<b>770320</b>	5 - 50	0.5	1.0 - 3.0	0.5 - 2.0	0.38	0.0015
<b>770340</b>	50 - 300	5	0.7 - 1.5	0.25 - 0.8	0.36	0.0015



## HANDROP STEPPER

Single channel stepper.

Allows to dispense up to 40 different volumes and up to 48 doses.

Compatible with tips on the next page.

Volumes from 1  $\mu$ l to 5 ml can be dispensed.

code	description	case weight	case volume
<b>721008</b>	Handrop Stepper	0.20	0.0015







## Micropipettes

Made in transparent, inert and low density 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:  $\pm 10\%$ .

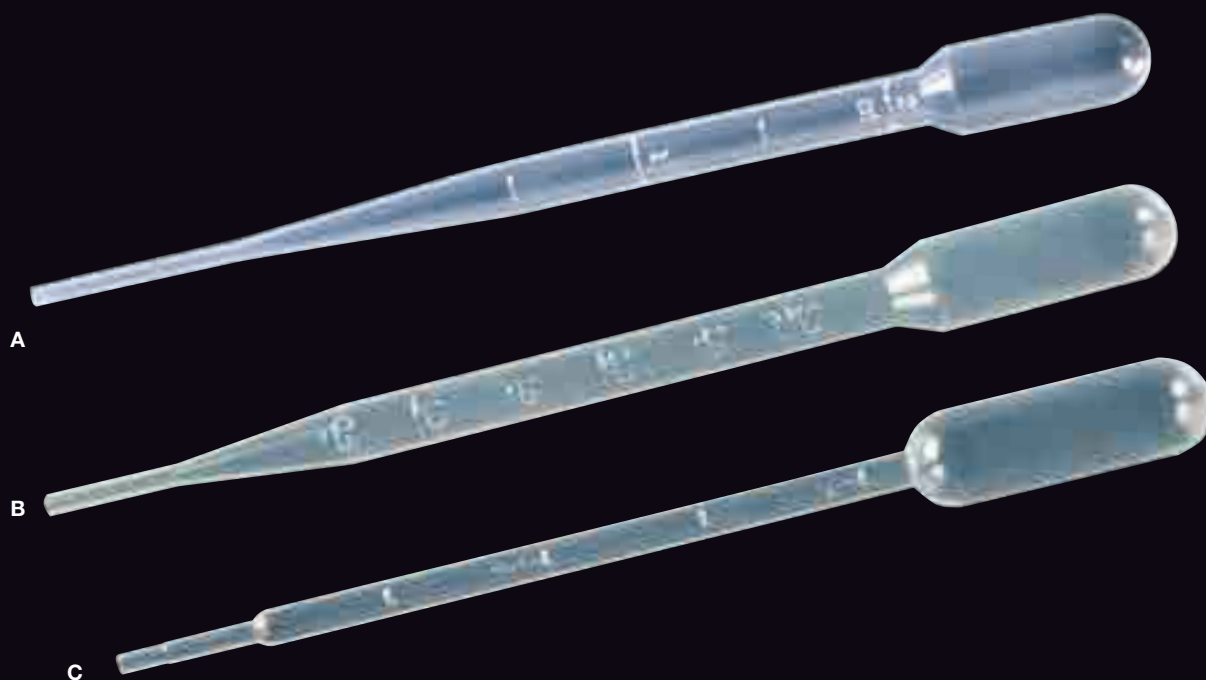
mod.	code	presentation	length mm	dispense volume $\mu\text{l}$	case weight	case volume
A	<b>201110</b>	500	83,0	100	0.31	0.003
B	<b>201250</b>	500	102,0	250	0.39	0.003



## Special purpose pipettes

Made in transparent, inert and low density 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	2.90	0.023
B	<b>210005</b>	500	50	1.19	1.3	1.0	1.90	0.022



## Graduated pipettes

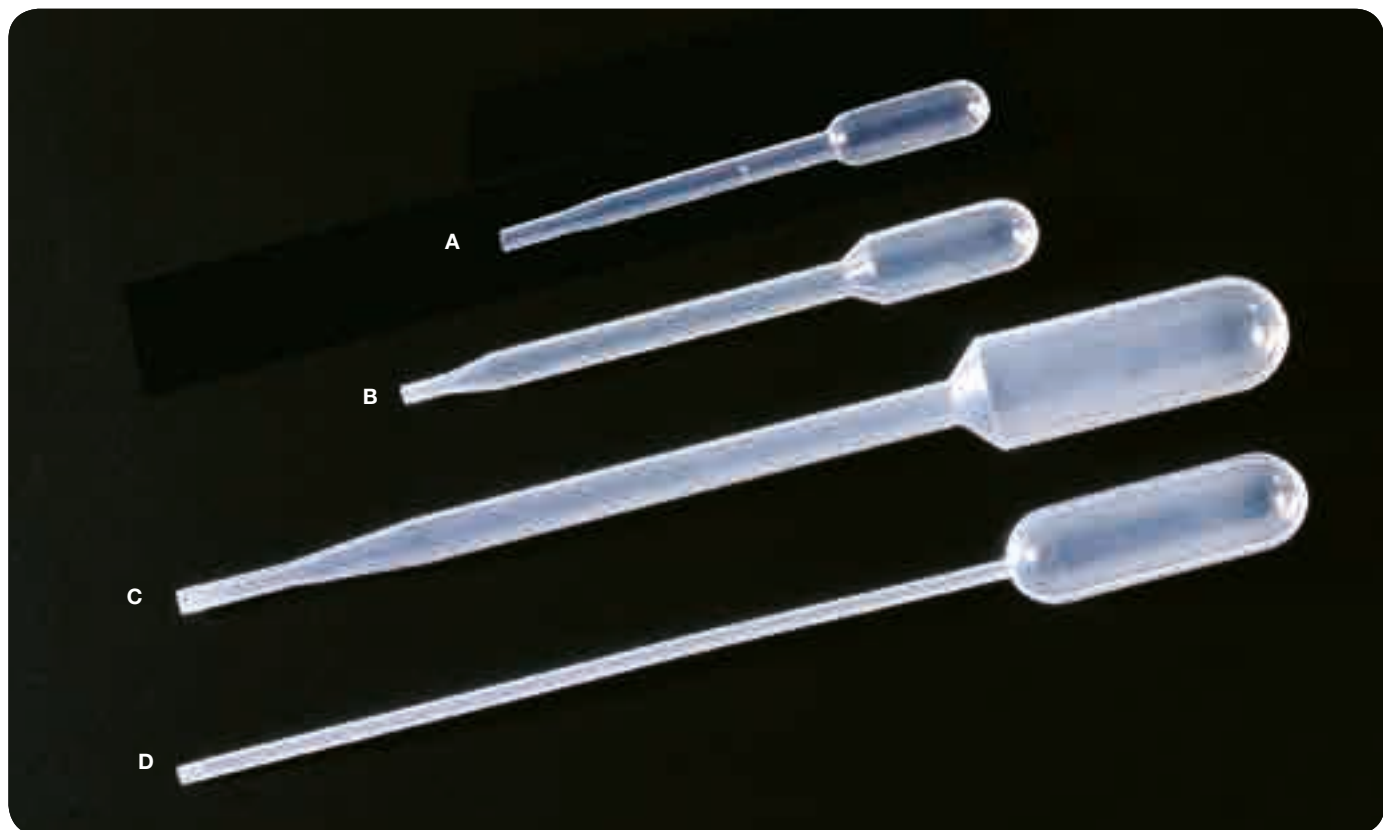
Made in transparent, inert and low density polyethylene.

**Sterile** models are ethylene oxide sterilized (except codes **200037** and **200034** that are radiation sterilized).

Volumetrical tolerance:  $\pm 10\%$ .

1  
2  
3

mod.	code	presentation	sterile	length mm	Ø stem mm	graduated until ml	total capacity ml	bulb draw ml	graduations ml	case weight	case volume	pallet quantity
A	<b>200002</b>	10 x 500	no	152	7.1	2	4.8	1.8	0.50	7.86	0.099	100.000
B	<b>200006</b>	10 x 500	no	155	7.8	3	7.5	3.2	0.50	9.65	0.100	100.000
B	<b>200062.0</b>	10 x 500 bag 20 u.	OXIDE	160	7.8	3	7.0	3.2	0.50	12.16	0.130	35.000
B	<b>200007</b>	6 x 500 individually wrapped peel-pack	OXIDE	154	7.8	3	7.0	3.2	0.50	10.10	0.160	27.000
B	<b>200037</b>	6 x 500 individually wrapped flow-pack	STERILE R	154	7.8	3	7.0	3.2	0.50	8.19	0.158	27.000
C	<b>200003</b>	6 x 500	no	155	4,6	1	5.8	3.4	0.25	5.10	0.061	90.000
C	<b>200032.0</b>	6 x 500 bag 20 u.	OXIDE	158	5.0	1	5.0	3.1	0.25	6.48	0.067	48.000
C	<b>200004</b>	6 x 500 individually wrapped peel-pack	OXIDE	154	5.0	1	5.0	3.1	0.25	9.23	0.165	27.000
C	<b>200034</b>	6 x 500 individually wrapped flow-pack	STERILE R	154	5.0	1	5.0	3.1	0.25	7.07	0.162	27.000



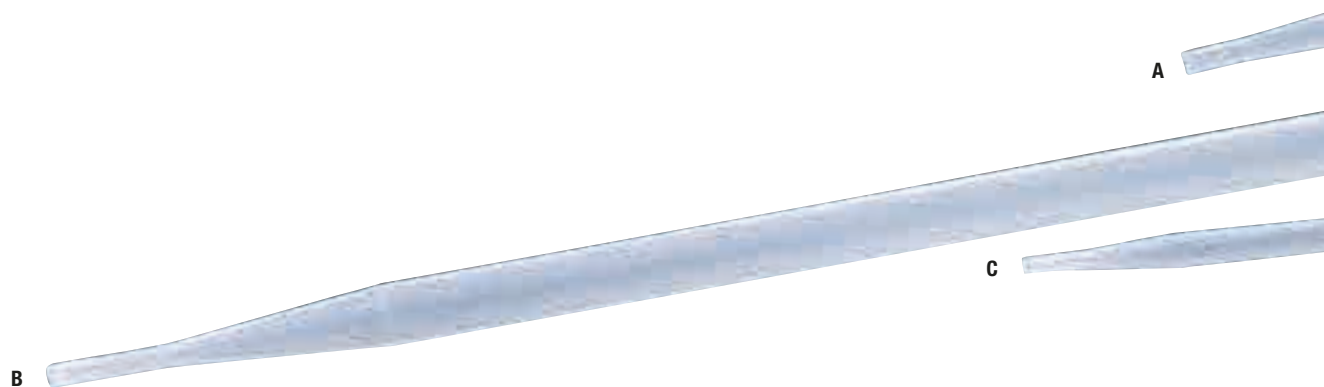
## General purpose pipettes

Made in transparent polyethylene.

Model **200038** is sterile by radiation and code **200008** is sterile 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>200121</b>	10 x 1,000	no	67	3.9	1.1	0.5	4.24	0.051
B	<b>200001</b>	8 x 500	no	87	4.7	1.7	0.9	3.50	0.038
C	<b>200000</b>	10 x 400	no	150	6.3	8.0	4.6	8.70	0.096
D	<b>200005</b>	6 x 500	no	155	2.5	4.6	3.3	4.79	0.060
D	<b>200008</b>	6 x 500 individually wrapped peel-pack	<b>STERILE EO</b>	150	2.5	4.0	3.1	13.00	0.162
D	<b>200038</b>	6 x 500 individually wrapped flow-pack	<b>STERILE R</b>	150	2.5	4.0	3.1	13.00	0.162



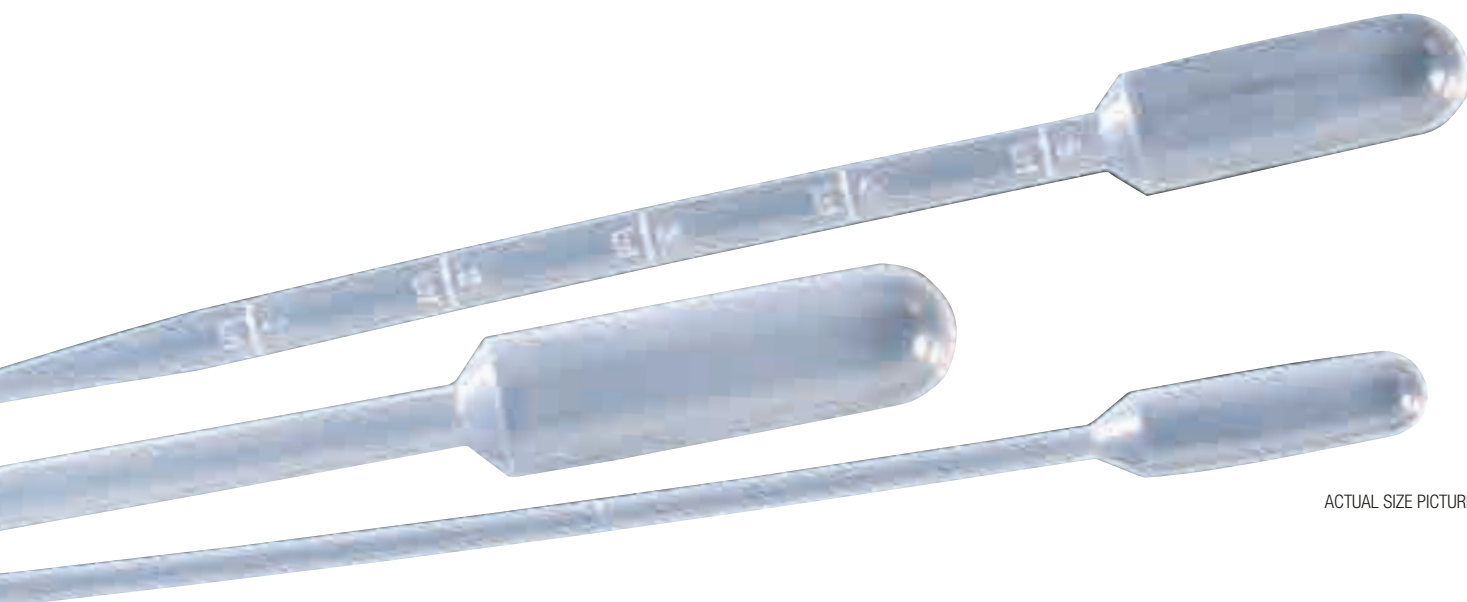


## General purpose pipettes

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	2.24	0.022
A	<b>210023</b>	500 individually wrapped peel-pack	<b>STERILE EO</b>	104	3.0	1.5	1.0	1.38	0.027
B	<b>210002</b>	10 x 500	no	144	5.0	5.0	3.3	7.30	0.099
B	<b>210022</b>	500 individually wrapped peel-pack	<b>STERILE EO</b>	144	5.0	5.0	3.3	1.66	0.027
C	<b>210004</b>	8 x 250	no	153	3.0	5.5	3.0	3.30	0.042
C	<b>210024</b>	500 individually wrapped peel-pack	<b>STERILE EO</b>	153	3.0	5.5	3.0	1.63	0.028



ACTUAL SIZE PICTURE

## 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	-	13.7	6.2	8.40	0.110
B	<b>200060</b>	10 x 100	300	9.0	23.0	7.1	7.60	0.110
C	<b>210006</b>	10 x 400	225	5.0	6.0	2.3	9.04	0.098



### 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 page 193.

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	0.071

### Sterile single use Straw-like pipettes

Single use straw-like non graduated pipettes. In polypropylene.

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	190	40 x 25	1.19	0.007

### Pipette trays

Made of white PVC.

Resistant to temperatures from **-20 °C 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	0.53	0.006
2	19996	283 x 216 x 40	6	1.38	0.017







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

Volumes range from 1 to 50 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).

Precision certified according to ASTM E934 and ISO 12771.

code	capacity ml	presentation	cotton colour	case quantity	tip	graduation ml	negative graduation ml	total capacity ml	case weight	case volume	cases pallet
<b>900030</b>	1	1 peel-pack	●	4 x 500	A	0/0.9	until -0.3	1.3	10.00	0.072	24
<b>900031</b>	1	bag of 25	●	4 x 1,000	A	0/0.9	until -0.3	1.3	14.52	0.071	30
<b>900130</b>	1	1 peel-pack	●	4 x 500	C	0/0.9	until -0.3	1.3	10.10	0.071	30
<b>900131</b>	1	bag of 25	●	4 x 1,000	C	0/0.9	until -0.3	1.3	14.00	0.071	25
<b>900032</b>	2	1 peel-pack	●	4 x 500	A	0/1.8	until -0.4	2.4	10.60	0.072	30
<b>900033</b>	2	bag of 25	●	4 x 1,000	A	0/1.8	until -0.4	2.4	17.20	0.071	30
<b>900034</b>	5	1 peel-pack	●	4 x 250	A	0/4	until -3	8	12.40	0.072	24
<b>900038</b>	5	bag of 25	●	4 x 375	A	0/4	until -3	8	15.00	0.071	30
<b>900144N</b>	5	1 peel-pack	●	4 x 250	B	0/4	until -3	8	12.20	0.072	30
<b>900036</b>	10	1 peel-pack	●	4 x 200	A	0/9	until -3	13	11.45	0.072	24
<b>900037</b>	10	bag of 25	●	4 x 250	A	0/9	until -3	13	13.08	0.071	30
<b>900146N</b>	10	1 peel-pack	●	4 x 200	B	0/9	until -3	13	11.51	0.072	30
<b>900136N</b>	10	1 peel-pack	●	4 x 200	C	0/9	until -3	13	11.51	0.072	30
<b>900041</b>	25	1 peel-pack	●	4 x 100	A	0/23	until -10	35	11.20	0.072	24
<b>900043</b>	50	1 peel-pack	●	4 x 25	A	1/2	until -10	60	2.50	0.019	60



Please find racks for these tubes in **Chapter 9. Sample Storage**



See our plastic Pasteur pipettes in **Chapter 8. Liquid Handling** (pages 189-192).



## 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	0.04	0.0002



## 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.  
Attention: New models coming soon.

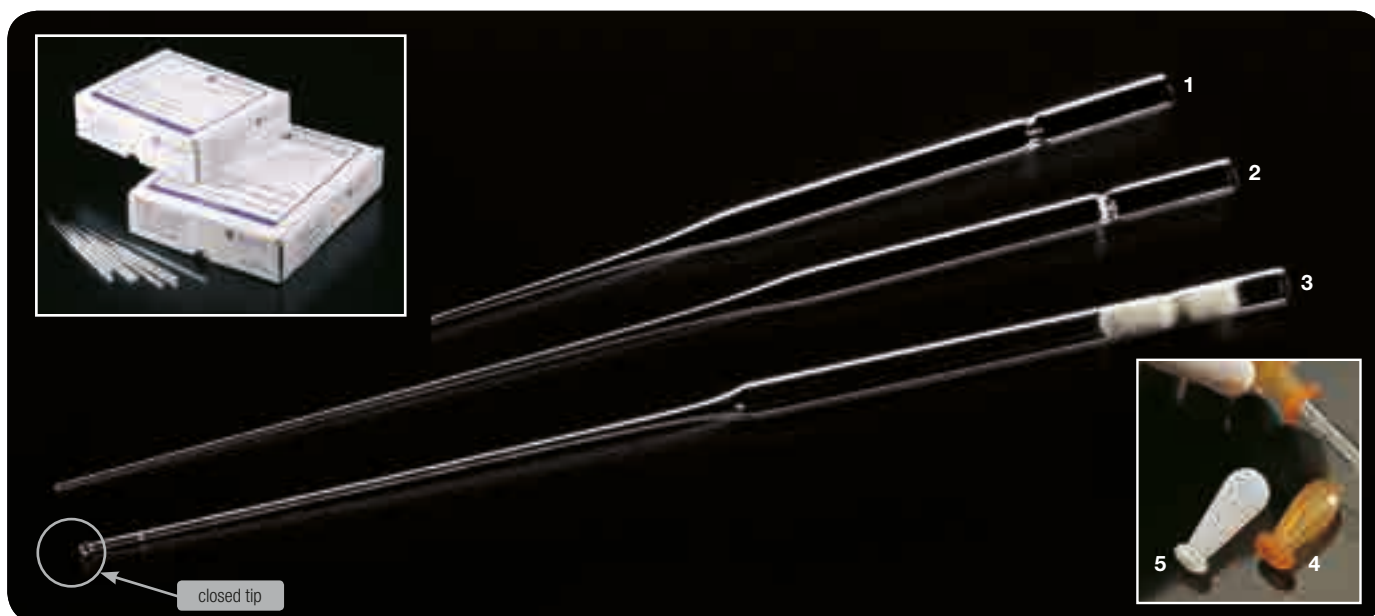
code	description	colour	bag quantity	bag weight	bag volume
W-100	up to 2 ml	blue	1	0.06	0.0002
W-110	up to 10 ml	green	1	0.06	0.0002
W-120	up to 25 ml	red	1	0.06	0.0002



See our Chapter 9. **Sample storage**



See our Chapter 12. **Hygiene and Safety**



## Glass Pasteur pipettes, open mouth

Soda glass. Dimensions: Ø mouth:  $6.95 \pm 0.15$  mm; Ø 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	3.33	0.012
2	<b>702</b>	230	130	4 x 250	3.50	0.018

## 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	3.68	0.014

## Pipetting bulbs

Designed for pipetting with plastic and glass pipettes.

mod	code	material	total length mm	Ø max. mm	capacity pipetting ml	bag quantity	bag weight	bag volume
4	<b>19194</b>	latex	35	14	2	100	0.15	0.0007
5	<b>19195</b>	silicone	40	15	1,5 - 1,8	50	0.22	0.0009

## 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.

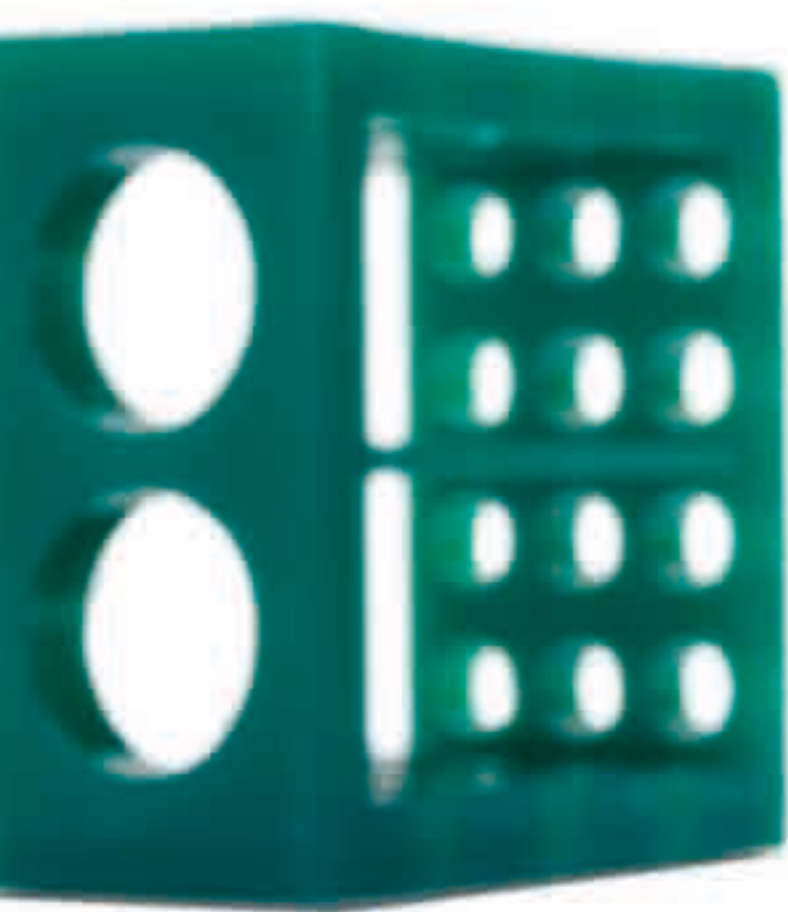
Standard model, accommodates all pipettes. Ability to clean inside of bulb by removing patented valve and rinsing out.

code	description	bag quantity	bag weight	bag volume
<b>19200</b>	pipetting bulb	1	0.05	0.0004



1. Evacuate the air by pressing the bulb, as the drawing indicates.
2. Intake by pressing on point B (up arrow).
3. Drain the liquid by pressing on point A (down arrow).
4. Blow out the pipette by pressing as the drawing indicates (point C).









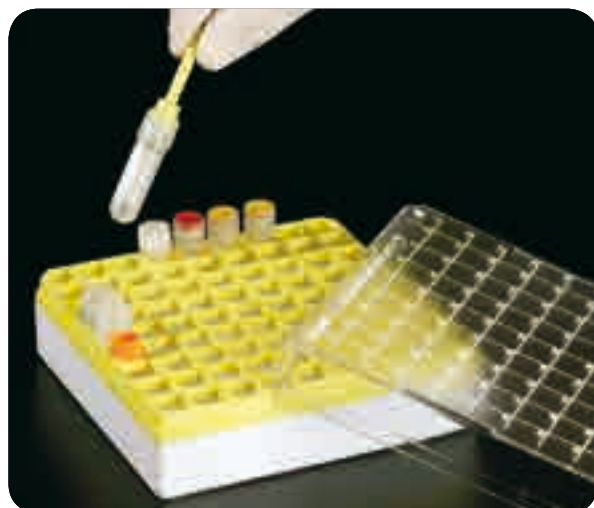


## Polycarbonate racks for cryovials

These racks provide ultra low temperature storage (**from  $-196^{\circ}\text{C}$  to  $121^{\circ}\text{C}$** ), 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		max. Ø tubes mm	dimensions mm	max. tubes capacity	max. tubes height	case quantity	case weight	case volume
<b>M-061NA</b>	25	orange	D	12	75 x 75 x 52	2 ml	48	5	0.35	0.002
<b>M-061AM</b>	25	yellow	E	12	75 x 75 x 52	2 ml	48	5	0.35	0.002
<b>M-062B</b>	81	blue		12	132 x 132 x 53	2 ml	48	5	1.00	0.007
<b>M-062R</b>	81	red	C	12	132 x 132 x 53	2 ml	48	5	1.00	0.007
<b>M-063B</b>	81	blue	B	12	132 x 132 x 95	5 ml	93	5	1.25	0.013
<b>M-063R</b>	81	red		12	132 x 132 x 95	5 ml	93	5	1.25	0.013
<b>M-064V</b>	100	green	A	12	132 x 132 x 53	2 ml	48	5	0.95	0.007
<b>M-064AM</b>	100	yellow		12	132 x 132 x 53	2 ml	48	5	0.95	0.007

\* 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  **$-80^{\circ}\text{C}$  to  $80^{\circ}\text{C}$** . 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. Capacity: 100. Ø wells: 12.8 mm.

code	colour	capacity	case quantity	case weight	case volume
<b>M-036B</b>	blue	81	4	0.62	0.0045
<b>M-036AM</b>	yellow	81	4	0.62	0.0045





## Polycarbonate racks for cryovials

Made of extra strong polycarbonate, these boxes are designed to be used at temperatures between **-190 °C** and **121 °C** and are **autoclavables**. 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>				
<b>M-033AM</b>	yellow	4	0,73	0,0043
<b>M-033R</b>	red	4	0,73	0,0043
<b>M-033V</b>	green	4	0,73	0,0043
<b>For 3.4 and 5 ml cryovials. 81 holes. Dimensions: 133 x 133 x 95 mm</b>				
<b>M-034AM</b>	yellow	10	2,28	0,0200
<b>For 1.2 and 2 ml cryovials. 100 holes. Dimensions: 133 x 133 x 52 mm</b>				
<b>M-035AM</b>	yellow	4	0,72	0,0043
<b>M-035R</b>	red	4	0,72	0,0043
<b>M-035V</b>	green	4	0,72	0,0043

\* 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 °C** and **121 °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
<b>M-036A</b>	PC rack for 10 ml cryovials	5	1.23	0.011





### 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  $-196^{\circ}\text{C}$  and is autoclavable up to  $121^{\circ}\text{C}$ .**

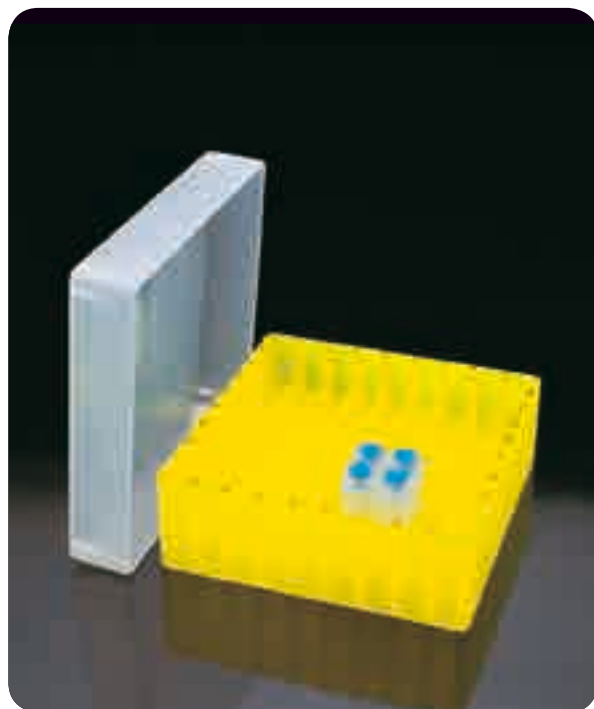
Sections will hold 81 microtubes (0.5, 1.5 or 2 ml) or cryotubes (1.2 ml) up to 12 mm diameter and 42 mm height.

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.

Suitable with tubes: **200400, 200401, 200405, 200407, 200410, 4092.2N, 4092.5N, 4092.6N, 4092.6NS, 409001.**

code	colour	quantity	weight	volume
<b>M-020AM</b>	yellow	1	0.17	0.0003
<b>M-020N</b>	natural	1	0.17	0.0003
<b>M-020R</b>	red	1	0.17	0.0003
<b>M-020V</b>	green	1	0.17	0.0003



### 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  $-196^{\circ}\text{C}$  and is autoclavable up to  $121^{\circ}\text{C}$ .**

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.

Suitable with tubes: **200400, 4092.2N, 4092.5N, 4092.6N, 409002, 409002.1, 409110.1, 409111/2.**

code	colour	quantity	weight	volume
<b>U-9950CAM</b>	yellow	1	0.17	0.0011
<b>U-9950CN</b>	natural	1	0.17	0.0011
<b>U-9950CNA</b>	orange	1	0.17	0.0011
<b>U-9950CR</b>	red	1	0.17	0.0011
<b>U-9950CV</b>	green	1	0.17	0.0011



### Rack 9x9 height 95

Polypropylene rack. It can be frozen down to  $-196^{\circ}\text{C}$ , and autoclaved up to  $121^{\circ}\text{C}$ .  
Dimensions with lid: 133 x 133 x 95 mm.

Available in fluorescent colors with translucent-transparent lid.

Ideal for 4 or 5 ml cryotubes.

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.

Suitable with tubes: **300300, 300500, 300700, 300800, 400700, 400800, 401100.**

code	colour	bag quantity	bag weight	bag volume
<b>U-9581N</b>	natural	1	0.24	0.0026

Check availability for yellow and green.





Rack 8x8 round hole height 45

Polypropylene rack, **autoclavable** up to **121 °C**.  
Dimensions with lid: 133 x 133 x 53 mm.  
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.  
Alphanumeric identification.  
Suitable with tubes: **4092.1N, 4092.1NS, 4092.2N, 4092.5N, 4092.6N, 4092.6NS, 200400, 409111/1.**

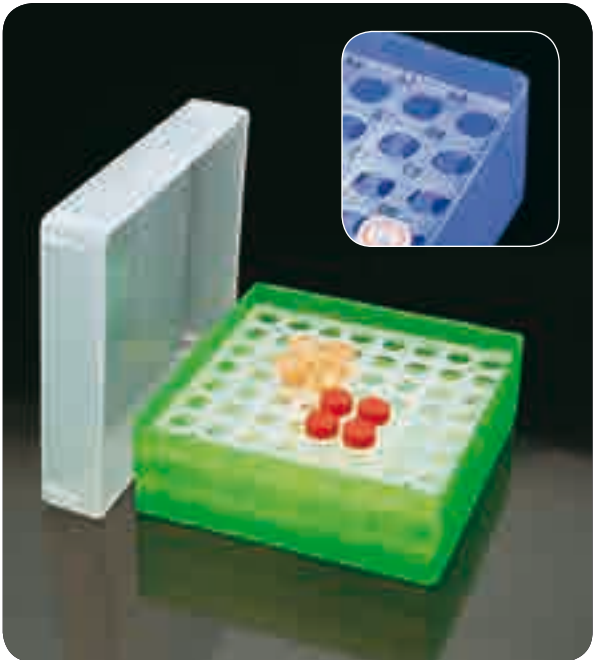
code	colour	quantity	weight	volume
U-8845A	blue	1	0.13	0.001
U-8845N	natural	1	0.15	0.001



Rack 8x8 round hole height 50

Polypropylene rack, **autoclavable** up to **121 °C**.  
Dimensions with lid: 133 x 133 x 53 mm.  
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.  
Alphanumeric identification.  
Suitable with tubes: **200400, 408003, 409110.1, 409110.2, 409110.3, 409110.4, 409110.5, 409111/1, 409111/2, 409111/3, 409111/4, 409111/5, 409111/6, 4092.2N, 4092.5N, 4092.6N, 4092.6NS.**

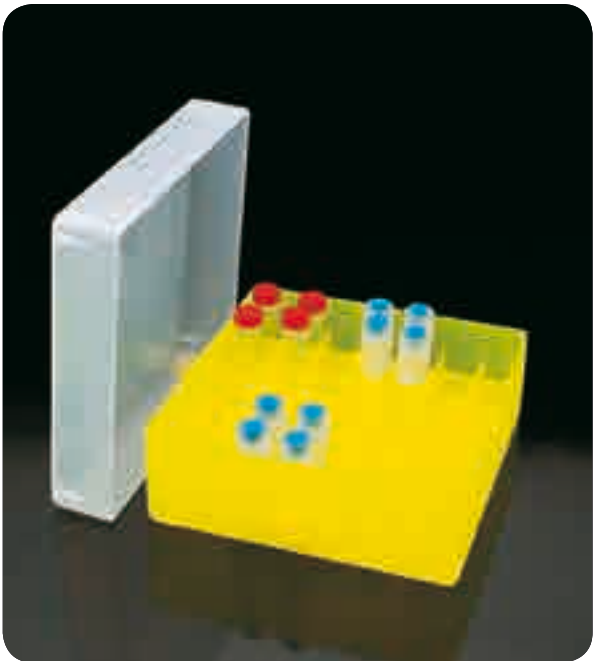
code	colour	quantity	weight	volume
U-8850A	blue	1	0.13	0.0011
U-8850NA	orange	1	0.13	0.0011



Rack 7x7 height 50

Polypropylene rack, **autoclavable** up to **121 °C**.  
Dimensions with lid: 133 x 133 x 53 mm.  
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), o low volume tubes, up to 16 mm diameter and 50 mm height.  
Suitable with tubes: **409002, 409002.1, 409104.1, 409106.1, 409106.2.**

code	colour	quantity	weight	volume
U-7750A	blue	1	0.14	0.0012
U-7750AM	yellow	1	0.14	0.0012
U-7750N	natural	1	0.14	0.0012





## 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.

This box can be custom-designed made, ask to our commercial department.

code	external dimensions mm	grid num.	Ø holes mm	case quantity	case weight	case volume
<b>M-600</b>	150 x 150 x 55	10 x 10	12	10	1.78	0.023
<b>M-610</b>	150 x 150 x 100	10 x 10	12	10	2.33	0.043
<b>M-607</b>	134 x 134 x 47	10 x 10	10	10	1.23	0.013
<b>M-606</b>	134 x 134 x 57	10 x 10	10	10	1.95	0.013
<b>M-603</b>	134 x 134 x 75	9 x 9	12	10	1.70	0.021
<b>M-604</b>	134 x 134 x 79	9 x 9	12	10	1.75	0.014



## 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.

Suitable with tubes: **4092.1N, 4092.1NS, 900117.**

code	colour	quantity	weight	volume
<b>U-0537A</b>	blue	1	0.15	0.0012
<b>U-0537N</b>	natural	1	0.15	0.0012
<b>U-0537NA</b>	orange	1	0.15	0.0012
<b>U-0537V</b>	green	1	0.12	0.00062



## 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	0.17	0.0013
<b>U-4445A</b>	blue	5	0.17	0.0013
<b>U-4445AM</b>	yellow	5	0.17	0.0013
<b>U-4445NE</b>	black	5	0.17	0.0013





Racks with lid

Polypropylene rack, **autoclavable** and designed for storage of samples down to **-90 °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
M-500	natural	50	20	2.48	0.020
M-501	neon green	50	20	2.48	0.020
M-502	neon pink	50	20	2.48	0.020
M-503	neon yellow	50	20	2.48	0.020
M-510	natural	100	20	3.98	0.028
M-511	neon green	100	20	3.98	0.028
M-512	neon pink	100	20	3.98	0.028
M-513	neon yellow	100	20	3.98	0.028

Minimum order quantity: 5 and multiples of 5 up to 20. From 20, multiples of 20.



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 alphanumerical 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
M-450	120 x 60, height 37,5	5	0.48	0.0022
M-410	140 x 73, height 37,5	5	0.53	0.0035



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 °C**) and freezable down to **-90 °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
M-052	rack for 24 microtubes	10	1.34	0.009
M-053	rack for 48 microtubes	5	1.34	0.009





## 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



## 80 well racks

Made of **autoclavable** polypropylene, those racks are designed for freezer storage and are rated to **-80 °C**.

Racks are designed to accommodate microtubes of diameter up to 11 mm.

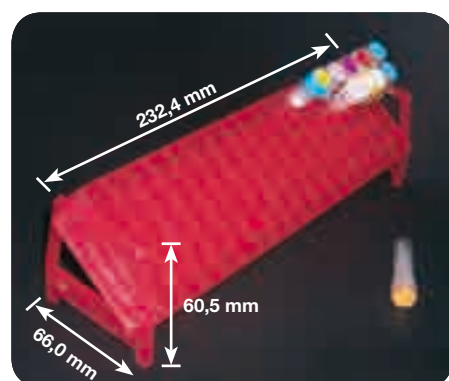
They are space-saving, as they feature 80 wells in a 5 x 16 configuration.

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	0.86	0.0023
<b>M-010.2</b>	natural rack	225 x 65 x 27	5	0.86	0.0023
<b>M-010.5</b>	blue rack	225 x 65 x 27	5	0.86	0.0023
<b>M-010.6</b>	red rack	225 x 65 x 27	5	0.86	0.0023
<b>M-010.7</b>	green rack	225 x 65 x 27	5	0.86	0.0023
<b>M-011.1</b>	box with lid	230 x 85 x 60	5	0.65	0.0070



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, etc, from fast temperature changes.

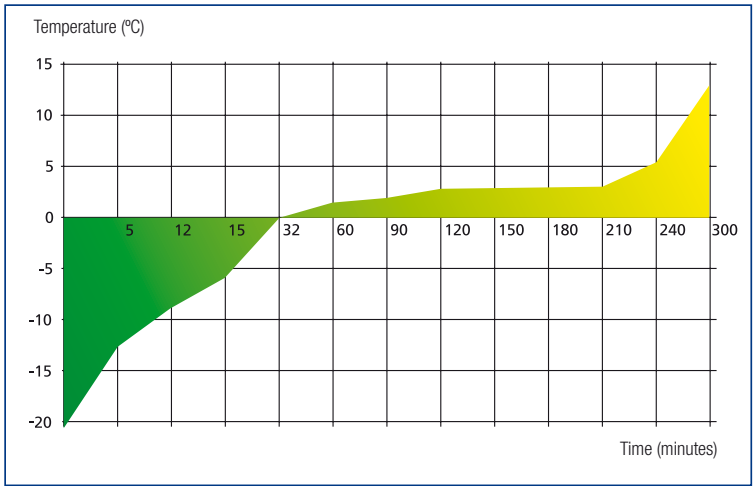
Moreover, the plastic changes its colour from green to yellow as long as the temperature of the rack changes (see figure). It can hold up to 96 0,2 ml single microtubes, strips, and plates.

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.

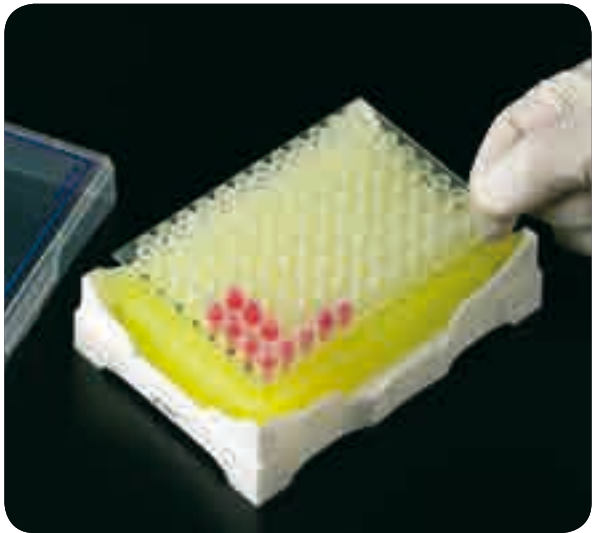
Store at the freezer while not being used



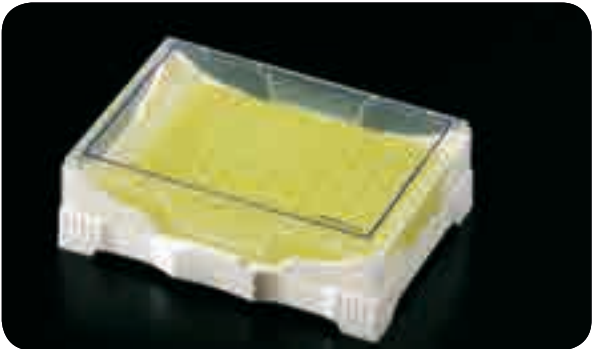
code	description	case quantity	case weight	case volume
M-572	yellow-green isofreeze rack	2	0.64	0.003



See our PCR tubes and plates in Chapter 2. **Molecular biology**



Rack at room temperature



Rack at -20 °C



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
M-585	blue PCR rack	20	3.00	0.020
M-581	yellow PCR rack	20	3.00	0.020

Minimum order quantity: 5 and multiples of 5 up to 20.

From 20, multiples of 20







## 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	0.29	0.0024



## 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	0.13	0.0015
<b>M-026</b>	20 tubes	105	4	0.20	0.0075



## 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



## 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 of 10 mm Ø, 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.

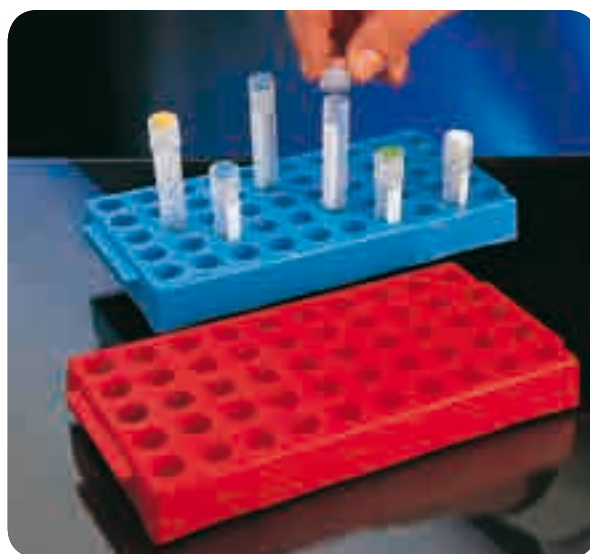
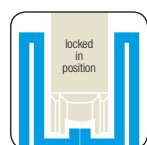
code	description	case quantity	case weight	case volume
<b>200420</b>	blue 20 hole rack	6	0.80	0.004



## 50 well microtube racks

Made of **autoclavable** polypropylene, these racks are designed for use with our tubes presented on page 144 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	1.00	0.004
<b>M-028.6</b>	red rack	4	1.00	0.004



## Styrofoam racks with lid

Racks made of expandable polystyrene.

Ideal for long term storage of microtubes in the freezer.

These racks have alphanumeric graduation for a proper identification of the tubes.

They are stackable, lightweight and economical.

code	description	suitables microtubes	dimensions (mm)	case quantity	case weight	case volume
<b>G-050</b>	50 wells rack	1.5 – 2 ml	210 x 107 x 65	10	0.49	0.017
<b>G-100</b>	100 wells rack	1.5 – 2 ml	335 x 95 x 68	10	0.57	0.056



## Styrofoam racks without lid

Racks made of expandable polystyrene.

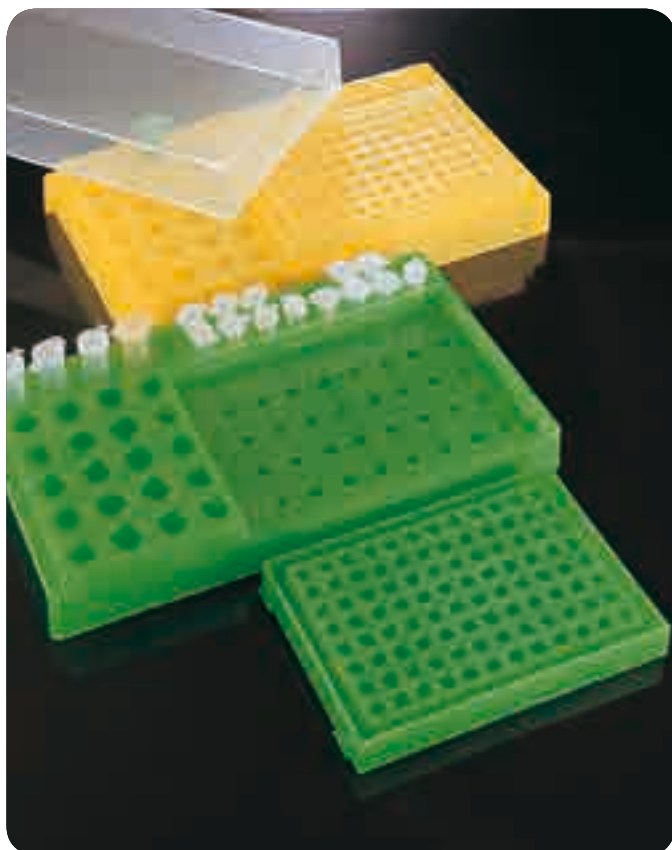
Ideal for long term storage of microtubes in the freezer.

They are stackable, lightweight and economical.

code	description	suitables microtubes	dimensions (mm)	case quantity	case weight	case volume
<b>244109</b>	100 wells rack	10 ml	224 x 213 x 48	24	1.40	0.069
<b>244111</b>	100 wells rack	1.5 – 2 ml	194 x 183 x 43	48	1.90	0.094







## 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	1.46	0.007
<b>M-541</b>	blue rack	5	1.46	0.007
<b>M-542</b>	yellow rack	5	1.46	0.007

Minimum unit sale: 5



## 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, code **M-540**. 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	0.80	0.005
<b>M-551</b>	yellow rack	5	0.80	0.005
<b>M-552</b>	pink rack	5	0.80	0.005
<b>M-553</b>	green rack	5	0.80	0.005

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.

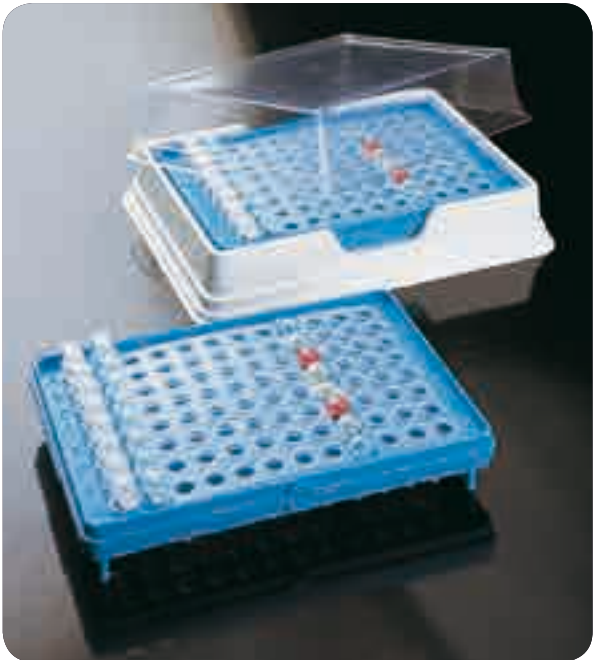
code	description	case quantity	case weight	case volume
M-554	stacking PCR rack	5	0.45	0.0035



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.

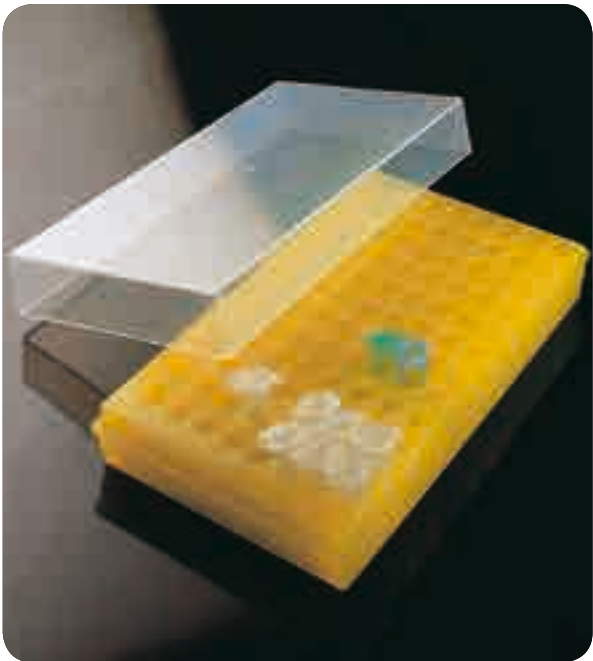
code	description	case quantity	case weight	case volume
M-640	white box with lid	5	0.20	0.0004
M-641	96 hole blue rack	5	0.20	0.0004



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 alphanumerically 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 ergonomical 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	0.97	0.007



## 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 81). 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	0.013



## 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-050</b>	basket 152 x 152 x 152 mm	6	1.39	0.003
<b>M-060</b>	basket 229 x 229 x 229 mm	6	3.12	0.080



## 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	1	0,54	0,006





## 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	0.96	0.005
<b>M-521</b>	fluorescent blue	5	0.96	0.005
<b>M-522</b>	fluorescent pink	5	0.96	0.005
<b>M-523</b>	fluorescent yellow	5	0.96	0.005



## Universal racks

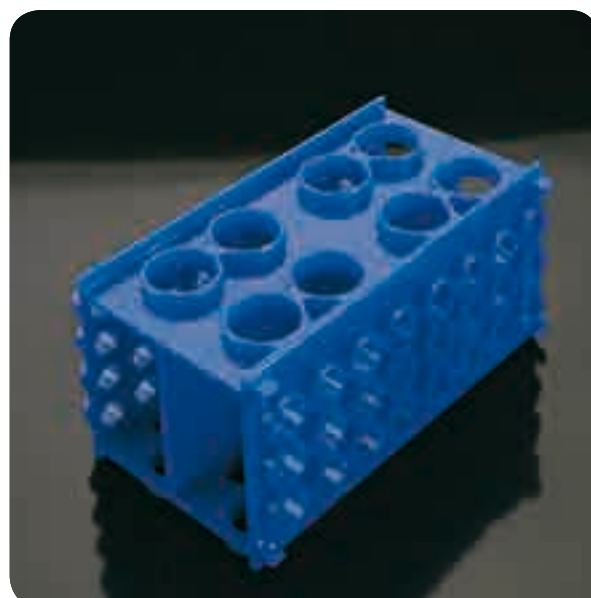
Made of **autoclavable** polypropylene, it withstands from **-90 °C to 121 °C**.

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	1.93	0.015



## 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:

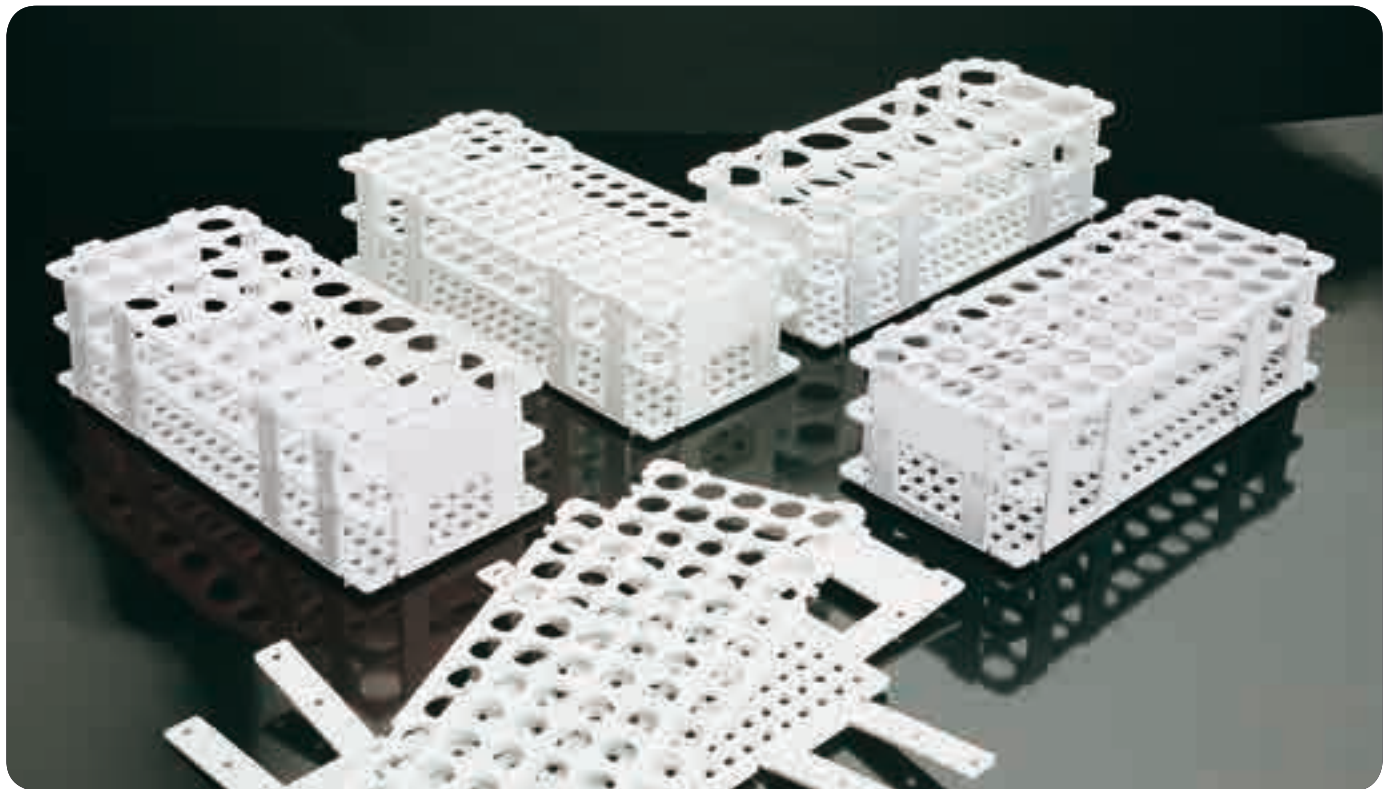
Tray (handles included): 242 x 120 x 40 mm.

Rack: 48 x 92 x 92 mm.

code	description	case quantity	case weight	case volume
<b>330</b>	combi rack	1	0.63	0.003







## Universal test tube racks

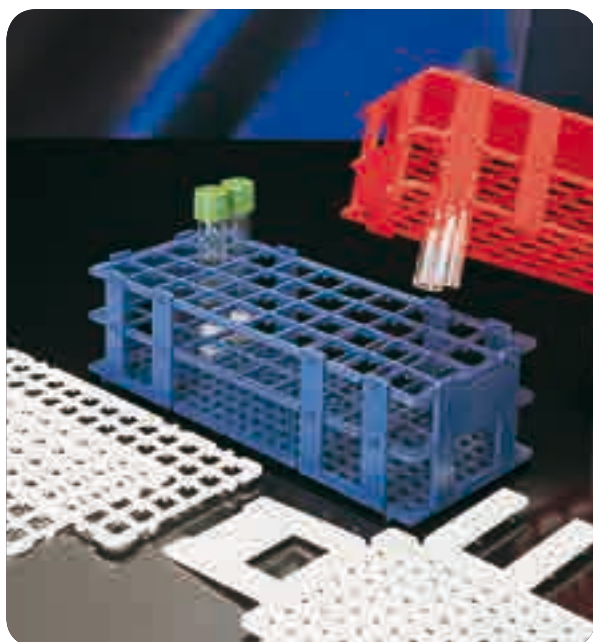
Round hole test tube racks made of white **autoclavable** polypropylene.

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	0.012
<b>W-015</b>	16	5 x 12 (60)	1	0.20	0.012
<b>W-016</b>	20	4 x 10 (40)	1	0.20	0.011
<b>W-017</b>	25	3 x 8 (24)	1	0.19	0.010
<b>W-018</b>	30	3 x 7 (21)	1	0.16	0.008



## 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 tubes mm	colour	tube capacity	bag quantity	bag weight	bag volume
<b>W-011</b>	13	white	6 x 15 (90)	1	0.18	0.0012
<b>W-011.4</b>	13	blue	6 x 15 (90)	1	0.17	0.0009
<b>W-012</b>	16	white	5 x 12 (60)	1	0.18	0.0013
<b>W-013</b>	20	white	4 x 10 (40)	1	0.09	0.0010





## 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.

code	places	Ø test tube mm	dimensions mm	bag quantity	bag weight	bag volume	blue	yellow	red
							(to add at the end of the code)		
<b>19563</b>	100 (4 x 25)	micro	262 x 108 x 45	5	0.70	0.007	.04	.06	.10
<b>19564</b>	90 (6 x 15)	13	246.5 x 104 x 60	5	0.80	0.006	.04	.06	.10
<b>19565</b>	60 (5 x 12)	16	246.5 x 104 x 70	5	0.89	0.006	.04	.06	.10
<b>19566</b>	40 (4 x 10)	20	246.5 x 104 x 70	5	0.82	0.006	.04	.06	.10
<b>19567</b>	40 (4 x 10)	25	296.5 x 124 x 85	5	1.00	0.007	.04	.06	.10
<b>19568</b>	24 (3 x 8)	30	300 x 111 x 83	5	0.88	0.009	.04	.06	.10

## 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
<b>19570</b>	246 x 104 x 64	3 x 7	8	1.50	0.020



SAMPLE STORAGE





## Acetal polymer racks

Made of acetal polymer. **Autoclavable up to 121 °C** for 20 minutes. Stackable.

Compact and lightweight.

They remain stable if submerged.

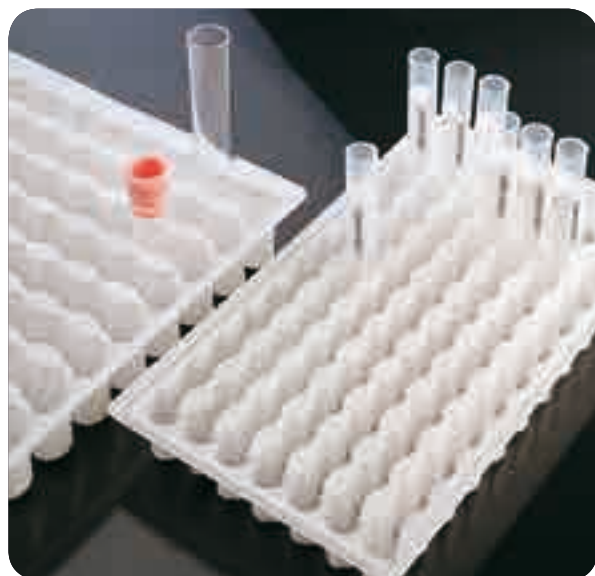
Color blue except model **M-562L**, which is lilac.

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, etc.

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	3.00	0.029



## 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	0.033
<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.

Suitable with tubes: **10100T, 300400, 300705, 300707, 300900, 300907, 300908, 301200, 301201, 301202, 301212, 301213, 301403, 301700, 400400, 400705, 400900, 401200, 401201, 401204, 401403, 401700, 409920, 429900, 429901, 429910, 429926, 429927, 429930, 429931, 713100, 716100, 716125, 720125, 901075, 913100, 916100.**

code	colour	bag quantity	bag weight	bag volume
<b>U-50128A</b>	blue	1	0.20	0.0035
<b>U-50128R</b>	red	1	0.20	0.0035
<b>U-50128V</b>	green	1	0.20	0.0035



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
U-1145A	blue	1	0.10	0.0012
U-1145N	natural	1	0.10	0.0012



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.

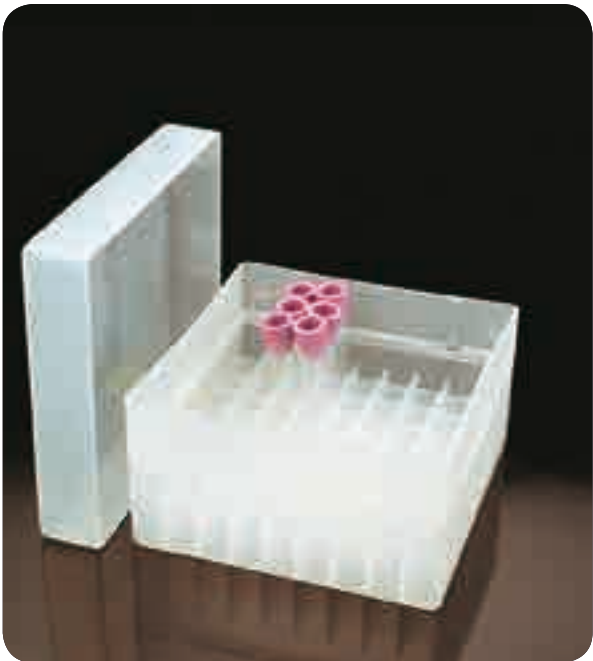
code	colour	quantity	weight	volume
U-1170A	blue	1	0.12	0.0014
U-1170N	natural	1	0.12	0.0014



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
U-9970A	blue	1	0.18	0.0014
U-9970N	natural	1	0.18	0.0014
U-9970R	red	1	0.18	0.0014



SAMPLE STORAGE





### 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.

Suitable with tubes: **401100, 409003.1, 409107.1, 409108.1.**

code	colour	quantity	weight	volume
<b>U-7780A</b>	blue	1	0.16	0.0016
<b>U-7780N</b>	natural	1	0.16	0.0016
<b>U-7780NA</b>	orange	1	0.16	0.0016



### 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.

Suitable with tubes: **400500, 409003.2, 409108, 409108.1, 801175T, 901075, 409003.1, 409107, 409107.1, 801075, 801275.**

code	colour	quantity	weight	volume
<b>U-9980A</b>	blue	1	0.18	0.0021
<b>U-9980N</b>	natural	1	0.18	0.0021



### 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	0.17	0.0021
<b>U-7796V</b>	green	1	0.17	0.0021



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.

Suitable with tubes: **300700, 300701, 300702, 300700.4, 300704, 300700.5, 300700.6, 300700.7, 300800, 300800.1, 300801, 300800.2, 300804, 301500, 400700, 400800, 400800.1, 409003.1, 409003.2, 409107, 409108, 409107.1, 409109, 409108.1, 409109.1, 801175T, 801275, 901275.**

code	colour	quantity	weight	volume
U-9996A	blue	1	0.20	0.0021
U-9996N	natural	1	0.20	0.0021



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.

Suitable with tubes: **300705, 300707, 300900, 301200, 301201, 301202, 301700, 400705, 400900, 401200, 401201, 401204, 401700, 713100, 716100, 810100T, 913100, 916100.**

code	colour	quantity	weight	volume
U-105105A	blue	1	0.18	0.0023



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.  
Alphanumeric codification visible next to the holes.  
Suitable with tubes: **300705, 300707, 300900, 300904, 300907, 300908, 301200, 301201, 301202, 301212, 301213, 301403, 400705, 400900, 401200, 401201, 401204, 401403, 401700, 409920, 429910, 429940, 429942, 429945, 713100, 716100, 810100T, 913100, 916100.**

code	colour	quantity	weight	volume
U-15128A	blue	1	0.20	0.0033
U-15128AM	yellow	1	0.20	0.0033
U-15128N	natural	1	0.20	0.0033



SAMPLE STORAGE



### 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.

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	1.26	0.010
<b>Z-250</b>	195 x 100 x 45	15	10	1.52	0.010
<b>Z-300</b>	220 x 110 x 45	17	10	1.86	0.010

### 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	0.78	0.010
<b>Z-050</b>	100 x 100 x 45	15	10	0.86	0.010
<b>Z-075</b>	110 x 110 x 45	17	10	1.06	0.010

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	3.04	0.010
<b>Z-550</b>	195 x 100 x 50	15	10	3.94	0.010
<b>Z-600</b>	220 x 110 x 50	17	10	4.48	0.010

### 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	1.90	0.010
<b>Z-800</b>	110 x 110 x 50	17	10	2.45	0.010

Minimum unit sale: 1







## Stainless steel racks

For tubes of 12 mm Ø, hole 13 mm Ø.

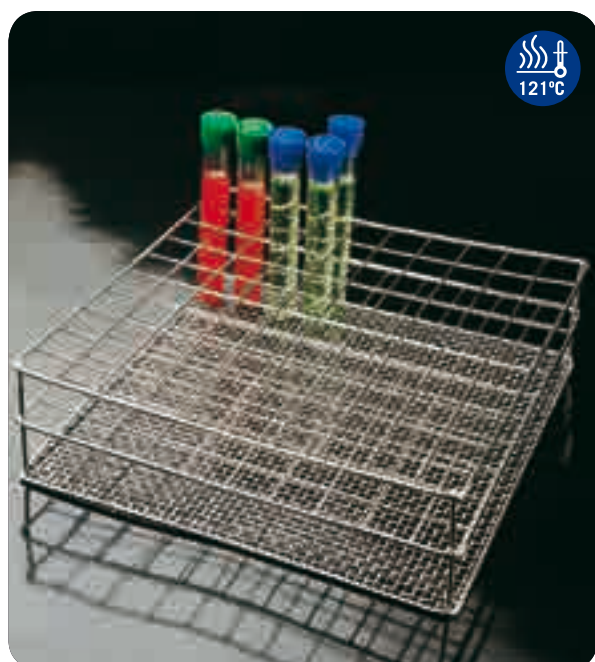
code	length x width x height mm	tubes capacity	quantity	weight	volume
<b>F-200</b>	155 x 155 x 35	100 (10 x 10)	1	0.22	0.0015
<b>F-210</b>	155 x 80 x 35	50 (10 x 5)	1	0.13	0.0006
<b>F-240</b>	91.5 x 63 x 35	24 (6 x 4)	1	0.07	0.0004
<b>F-211</b>	150 x 80 x 70	50 (10 x 5)	1	0.14	0.0016



## 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	0.24	0.0028
<b>B-210</b>	175 x 85 x 60	50 (10 x 5)	1	0.15	0.0012
<b>B-220</b>	347 x 87 x 60	100 (20 x 5)	1	0.20	0.0025
<b>B-240</b>	110 x 75 x 60	24 (6 x 4)	1	0.10	0.0010



## 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	0.33	0.0028
<b>A-211</b>	210 x 110 x 40	50 (10 x 5)	1	0.18	0.0012
<b>A-231</b>	169 x 128 x 40	48 (8 x 6)	1	0.20	0.0008
<b>A-241</b>	125 x 85 x 40	24 (6 x 4)	1	0.09	0.0006
<b>A-251</b>	87 x 65 x 40	12 (4 x 3)	1	0.07	0.0004
<b>A-200</b>	210 x 210 x 60	100 (10 x 10)	1	0.32	0.0043
<b>A-210</b>	210 x 110 x 60	50 (10 x 5)	1	0.19	0.0021
<b>A-230</b>	165 x 125 x 60	48 (8 x 6)	1	0.17	0.0012
<b>A-240</b>	125 x 85 x 60	24 (6 x 4)	1	0.11	0.0001
<b>A-250</b>	87 x 65 x 60	12 (4 x 3)	1	0.07	0.0007
<b>A-260</b>	310 x 210 x 59	150 (15 x 10)	1	0.20	0.0025
<b>A-202</b>	210 x 210 x 85	100 (10 x 10)	1	0.34	0.0062
<b>A-212</b>	210 x 110 x 85	50 (10 x 5)	1	0.21	0.0034
<b>A-222</b>	415 x 110 x 85	100 (20 x 5)	1	0.39	0.0065
<b>A-242</b>	125 x 85 x 85	24 (6 x 4)	1	0.11	0.0014



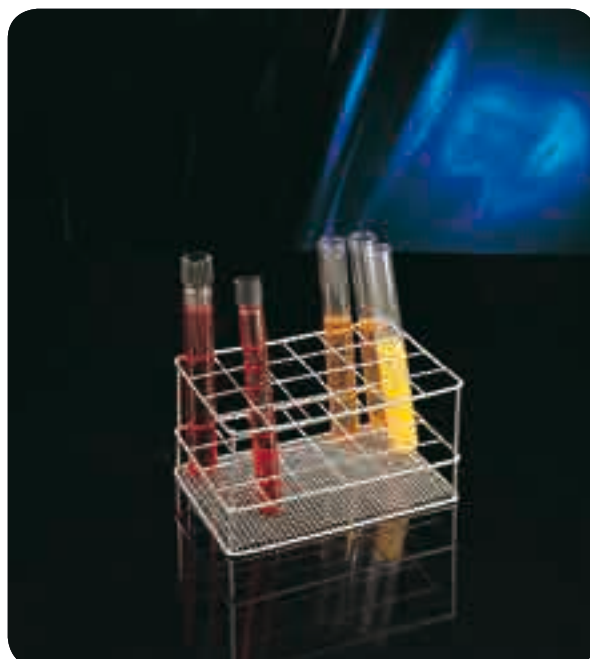
## Racks for containers up to 23 mm Ø

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	0.50	0.0078
<b>D-230</b>	219 x 166 x 85	48 (8 x 6)	1	0.26	0.0042
<b>D-240</b>	165 x 110 x 85	24 (6 x 4)	1	0.16	0.0020
<b>D-250</b>	111 x 84 x 85	12 (4 x 3)	1	0.10	0.0013



Suitable for glass tubes shown on pages 133-134



## 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	0.30	0.0039
<b>C-256</b>	200 x 70 x 60	12 (6 x 2)	1	0.13	0.0012



Suitable for containers shown on pages 148-149



## 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	0.53	0.0052
<b>C-254</b>	195 x 65 x 40	12 (6 x 2)	1	0.12	0.0008



Suitable for containers shown on pages 148-149



SAMPLE STORAGE



## Racks for containers up to 30 mm Ø

Made of stainless steel. 33 mm square holes. Features a strong woven mesh base.



code	length x width x height mm	containers capacity	quantity	weight	volume
<b>R-292</b>	137 x 104 x 85	12 (3 x 4)	1	0.12	0.0017
<b>R-293</b>	171 x 171 x 85	25 (5 x 5)	1	0.22	0.0035
<b>R-281</b>	138 x 70 x 92	8 (4 x 2)	1	0.11	0.0017
<b>R-282</b>	138 x 138 x 92	16 (4 x 4)	1	0.15	0.0020
<b>R-283</b>	206 x 206 x 89	36 (6 x 6)	1	0.60	0.0050



Suitable for containers shown on pages 35 and 37

**50 ml conical tubes made of transparent polypropylene. Suitable for centrifugation. Sterile and non sterile version skirted and not skirted.**



You can find our 50 ml centrifuge tubes at chapters 1 and 6.





## 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>	170,5 x 129 x 45	12 (4 x 3)	1	0.14	0.0013
<b>L-240</b>	255 x 170 x 43	24 (6 x 4)	1	0.25	0.0023



Suitable for containers shown on pages 150 and 151



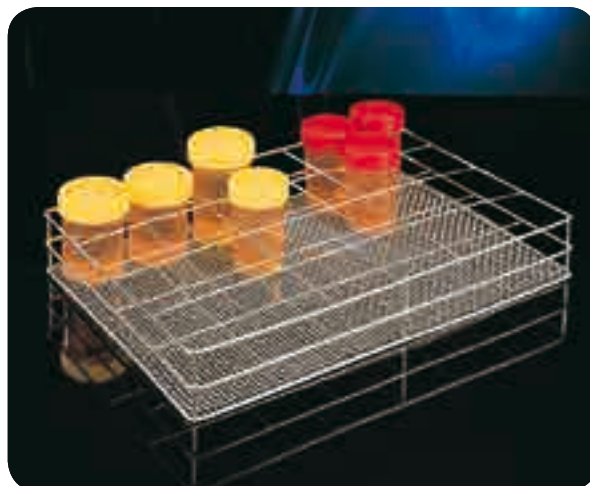
## Racks for containers up to 47 mm Ø

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	0.35	0.0042
<b>I-250</b>	210 x 160 x 45	12 (4 x 3)	1	0.25	0.0022



Suitable for containers shown on pages 152 and 153



## 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	0.46	0.0056
<b>N-250</b>	393 x 132 x 45	12 (6 x 2)	1	0.37	0.0029

Suitable for containers shown on pages 154, 155, 156 and 158



## 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>	391,5 x 133,5 x 85	12 (6 x 2)	1	0.45	0.0050



Suitable for containers shown on pages 154, 155, 156 and 158







## Bottle carrier with folding handlers

Manufactured in stainless steel and designed for the transport of six 1 liter bottles such as chemical reagent bottles.

code	length x width x height mm	quantity	weight	volume
<b>19700</b>	380 x 240 x 130	1	1.34	0.018



See our range of bottles and containers in chapter 12. **Laboratory and industrial packaging**



## Baskets with folding handles

Made of stainless steel. Features a strong woven mesh base. For bottles and containers.

code	length x width x height 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	0.022
<b>Without dividers</b>				
<b>H-260</b>	480 x 300 x 150	1	1.18	0.020



## Instrument trays

Made of stainless steel thick woven mesh. Reinforced construction to withstand weight. With not folding handles.

code	length x width x height mm	quantity	weight	volume
<b>T-200</b>	370 x 240 x 80	1	1.06	0.016
<b>T-210</b>	360 x 260 x 80	1	1.12	0.020



### Baskets for autoclave

Stackable baskets made of stainless steel.

code	length x width x height mm	quantity	weight	volume
H-290	470 x 300 x 200	1	1.40	0.028
H-295	570 x 300 x 200	1	1.66	0.039



### 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	length x width x height mm	quantity	weight	volume
H-200	120 x 120 x 145	1	0.26	0.004
H-210	160 x 160 x 140	1	0.40	0.005
H-215	140 x 140 x 140	1	0.50	0.003
H-220	210 x 210 x 180	1	0.65	0.008
H-240	300 x 300 x 200	1	1.00	0.020



### Round baskets with handle

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	0.22	0.003
R-215	150	200	1	0.35	0.006
R-220	200	200	1	0.52	0.008
R-230	180	210	1	0.47	0.008
R-240	180	230	1	0.56	0.010
R-250	180	240	1	0.53	0.010



SAMPLE STORAGE



## 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:

**Picture A:** A-295, rack for 64, 10 ml tubes (95 x 15 mm).

**Picture B:** B-240, rack for 24, 5 ml tubes (75 x 12 mm).

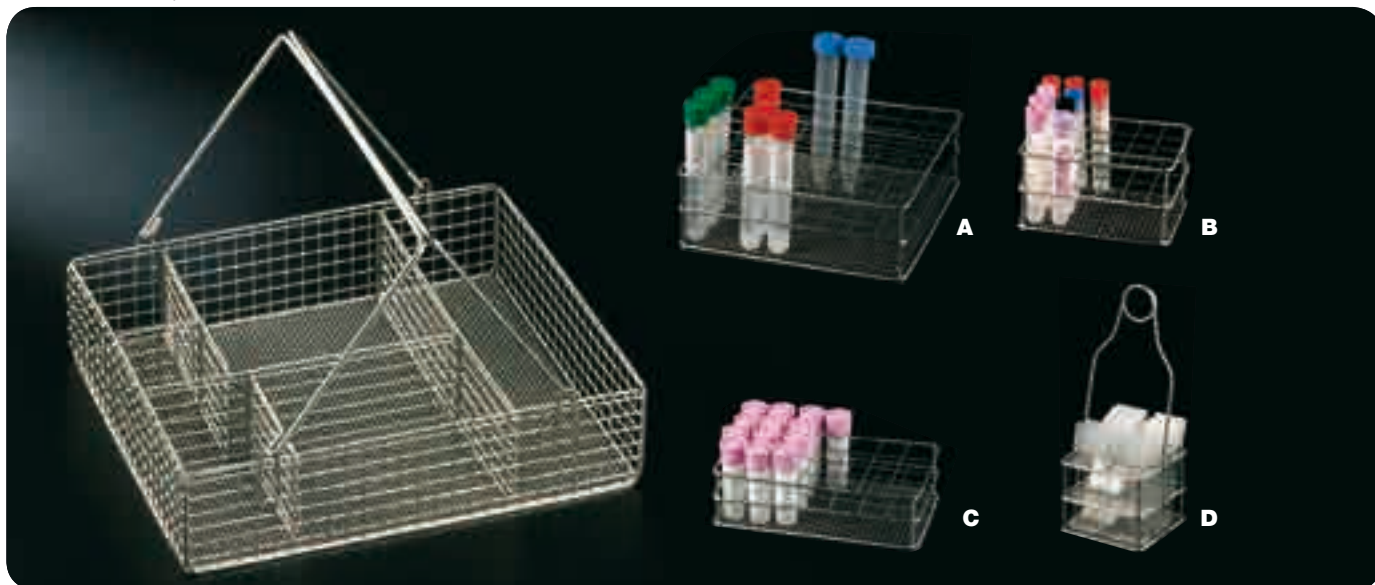
**Picture C:** A-261, rack for 28, 5 ml tubes (50 x 15 mm flat bottom).

**Picture D:** CP-24, small-sized basket for 24 slides vertically placed.

code	description	length x width x height mm	quantity	weight	volume
<b>H-401</b>	basket with racks	340 x 290 x 85	1	1.40	0.008



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
<b>M-300</b>	356 x 292 x 51	1	1.38	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
<b>15006</b>	rack for 14 bags	1	1.77	0.039
<b>15007</b>	clips to adjust bags	50	0.77	0.004

Customer-designed models can be produced.  
Please ask the commercial department.

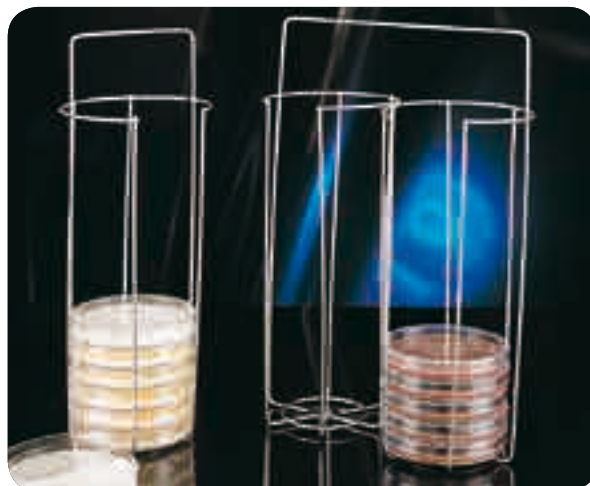


## Petri dish baskets

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)	height handle mm	case quantity	case weight	case volume
<b>H-600</b>	1 section, holds up to 10 dishes	105 x 110 x 250	105	1	0.16	0.005
<b>H-601</b>	2 sections, holds up to 20 dishes	105 x 215 x 250	100	1	0.31	0.010

\*Length x width x height.  
Height with handle: 360 mm.  
We can supply customer-designed models.



## Special baskets and trays for slides

Baskets are manufactured from stainless steel wire.  
Model **CP-30** has 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	0.12	0.001
<b>CP-45 H</b>	basket for 45 horizontal slides	235 x 85	1	0.17	0.002
<b>CP-30</b>	basket for 30 vertical slides	70 x 90	1	0.20	0.003



See more staining systems in chapter 4.  
**Histology, microscopy and staining**



## Stainings racks for microscope slides

Made of stainless steel.

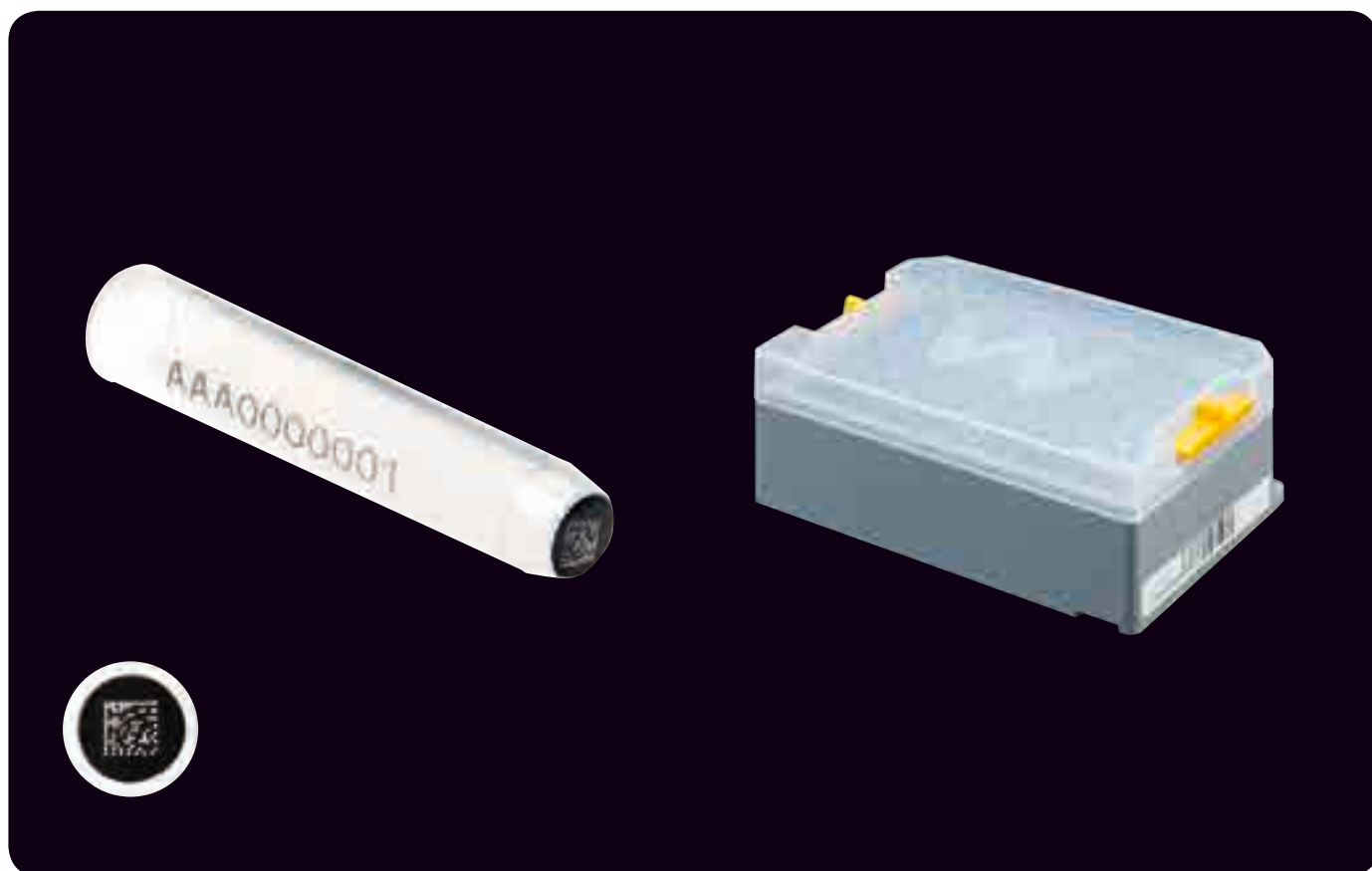
code	description	quantity	weight	volume
<b>S-004</b>	for 12 slides length: 435 width: 85	1	0.25	0.003
<b>S-002</b>	for 24 slides length: 435 width: 175	1	0.36	0.003
<b>S-003</b>	without divisions length: 435 width: 85	1	0.21	0.003











## Solutions for cryopreservation

Wilmut offers a **wide range of biological simple storage tubes** that fit in the 96-well plate SBS standard format, and single tubes which are compatible with any freezing box format.

With volumes in between 0.5 ml and 1.2 ml and different options of codification that allows Wilmut system **adapt to the needs of any laboratory or biobank**. They are products designed and oriented exclusively to the user.

### Main features:

- Tubes and racks for microbiological sample storage
- It is the tube with more capacity in the minimum space: maximum optimization of the freezers (from 15 % to 75 % of space saving)
- Maximum traceability: 2D datamatrix code, legible code at the tube, and bar code in the rack
- Traceability files available at [www.wilmut.es](http://www.wilmut.es) or using software management
- Big quantity of accessories: caps, lockers, pickers, cappers, decappers, labels, scanners, etc.

### WILMUT tubes:

Made with high quality polypropylene, with volume indicator in the tube, **autoclavables at 121 °C** and allows storage up to **-86 °C**.

### WILMUT Cryoboxes:

Polypropylene Cryoboxes with standard SBS 96-well format with security closers easy to open even when are frozen.

### Accessoires WILMUT:

Wilmut a une grande gamme d'accessoires pour compléter la gamme de tubes codifiés et non codifiés.

## Non Coded Tubes

### Wilmut Seroteca (W-SER)

Low adherence PP, low cytotoxicity and extractable levels, and **DNase, RNase, human DNA and Endotoxines/Pyrogens free.**

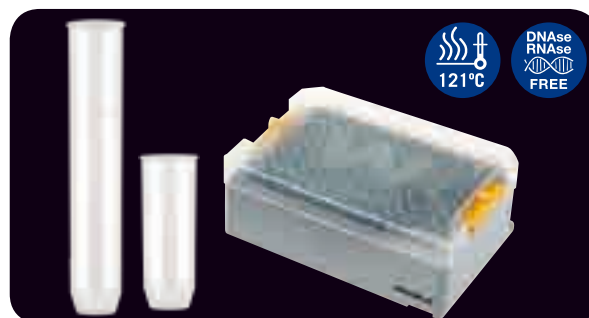
code	gross volume ml	net volume ml	presentation	min. order quantity	case quantity	case weight	case volume
<b>W051100</b>	0.65	0.5	bag	960 u	40 x 960	12.90	0.096
<b>W121100</b>	1.4	1	bag	960 u	20 x 960	7.14	0.096
<b>W051960</b>	0.65	0.5	rack	20 x 96*	6 x 20 x 96	11.18	0.056
<b>W121960</b>	1.4	1	rack	12 x 96*	6 x 12 x 96	12.79	0.071

\* 20 racks to 96 tips and 12 racks to 96 tips.

### Wilmut Eco (W-ECO)

code	gross volume ml	net volume ml	presentation	min. order quantity	case quantity	case weight	case volume
<b>W058100</b>	0.65	0.5	bag	960 u	40 x 960	12.50	0.096
<b>W128100</b>	1.4	1	bag	20 x 96*	40 x 960	11.90	0.096
<b>W128960</b>	1.4	1	rack	10 x 96*	10 x 96	1.62	0.006

\* 20 racks to 96 tips and 10 racks to 96 tips.



### W-RACK 96 Cryoboxes (empty)

Made with high quality PP, resistant up to **-86 °C** and autoclavable at **121 °C**.

code	description	case quantity	case weight	case volume
<b>W000050</b>	cryobox for 0.65 ml tube	18	1.14	0.0069
<b>W000120</b>	cryobox for 1.2 ml tube	10	1.14	0.0069
<b>W000059CL</b>	coded cryobox for 0.65 ml tube	18	1.14	0.0069
<b>W000129CL</b>	coded cryobox for 1.2 ml tube	10	1.16	0.0069

The coded codes are supplied with cryolabel compatible with liquid handling robots.



### Plug Style caps W-SEAL\*

Made with high quality TPE that assures a perfect adjustment with the tube and an hermetic sealing at temp. up to **-86 °C**.

Available in different colors for visual sample identification.

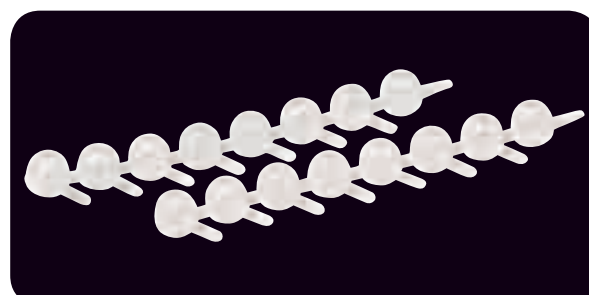
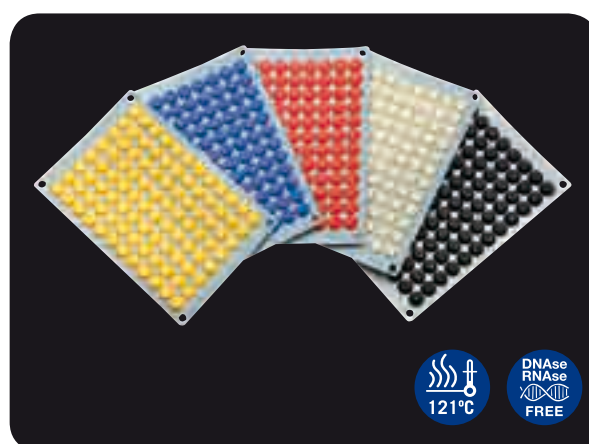
code	presentation	colour	min. order quantity	case quantity	case weight	case volume
<b>W999600*</b>	sheet 10x96	natural	10 x 96	35 x 10 x 96	6.08	0.026
<b>W999601*</b>	sheet 10x96	blue	10 x 96	35 x 10 x 96	6.08	0.026
<b>W999602*</b>	sheet 10x96	black	10 x 96	35 x 10 x 96	6.08	0.026
<b>W999603*</b>	sheet 10x96	red	10 x 96	35 x 10 x 96	6.08	0.026
<b>W999604*</b>	sheet 10x96	yellow	10 x 96	35 x 10 x 96	6.08	0.026
<b>W990000</b>	bag 960 u	natural	960	70 x 960	9.21	0.026
<b>W990001</b>	bag 960 u	blue	960	70 x 960	9.21	0.026
<b>W990002</b>	bag 960 u	black	960	70 x 960	9.21	0.026
<b>W990003</b>	bag 960 u	red	960	70 x 960	9.21	0.026
<b>W990004</b>	bag 960 u	yellow	960	70 x 960	9.21	0.026

\*Codes not available for sale in the Netherlands, UK, Japan and USA

### PET 8 strip caps polyethylene

High quality polyethylene 8 strip caps.

code	presentation	case quantity	case weight	case volume
<b>409005</b>	bag 120 u	5 x 120	0.80	0.008



W

## Wilmut Accessories

WILMUT SYSTEM





## Pickers W-PICKER

Tools designed for easily pick tubes from W-rack, one at a time or in strips of 8. Compatible with the whole range of Wilmut tubes, capped or non capped.

code	tubes capacity	presentation	case quantity	case weight	case volume
<b>W000040</b>	1	1	1	0.02	0.0001



## Hand operated capper W-CAPP10

Enables to capp up to 96 tubes at a time in SBS format. Compatible with the whole range of Wilmut tubes, 1,4 ml and 0,65 ml with an adapter. Made of top quality materials.

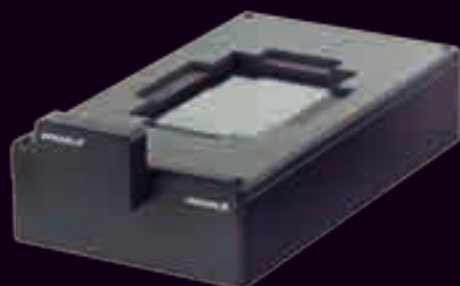
code	description	case quantity	case weight	case volume
<b>W000010</b>	capper	1	3.30	0.014



## Decappers W-DECAP

Made of aluminum alloy. Autoclavables and resistant to UV decontamination. Enable to easily remove caps from the tubes, one at a time or in rows of 8 caps.

code	description	case quantity	case weight	case volume
<b>W000011</b>	decapper for 1 tube	5	0.15	0.0001
<b>W000018</b>	decapper for a row of 8 tubes	5	0.20	0.0002



## 2D Bed Scanner W-DATAPAQ 96

Allows to scann 96 tubes rack in just 10 seconds. Integrates fully into robotic platforms. Surface treated specially for avoiding errors while reading freezed tubes.

code	description	case quantity	case weight	case volume
<b>W009680</b>	bed scanner for 96 tubes	1	3.27	0.033



## 2D and 1D manual code reader W-READER

Scan of tubes, boxes, or cryoracks one by one. They are supplied with a support that allows their use in an automatic way. Allows the reading of codes on shiny surfaces.

code	description	case quantity	case weight	case volume
<b>W001400</b>	USB code reader	1	0.76	0.003

## Metallic cryoracks for sample storage

Space optimization and organization of biological samples.

Made with high quality materials compatible and adaptable to any storage format: boxes, racks, tubes, moulds, etc., and all types of cryostorage equipment: refrigerators, freezers, deep freezers, nitrogen tanks, walk in cool rooms, etc.

We produce all sort of metallic racks: vertical, horizontal, cell system racks, tray racks, etc., including also customized solutions to adapt to the customer needs.

### Horizontal metal racks

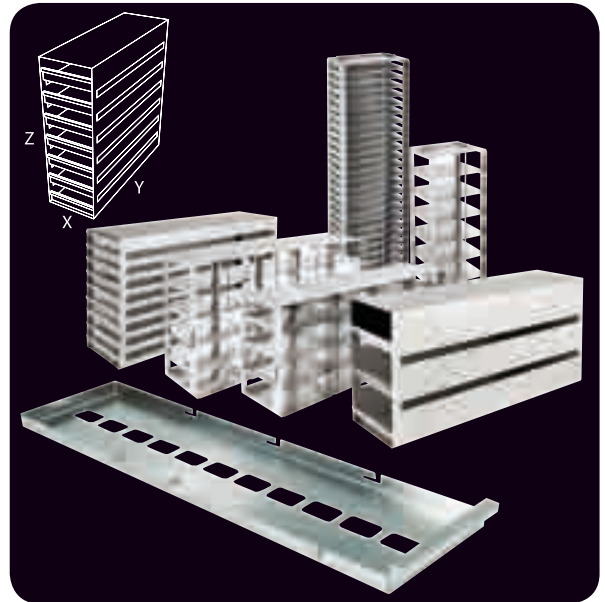
Horizontal racks in hi-performance stainless steel type AISI 304.

With FB system of no-slip trays for easy storage and search of samples.

Maximum size of the boxes to storage: 55mm height and 136 mm width

code	number of trays	measures (Z x Y x X) mm	type A boxes capacity (90x130)	type B boxes capacity (135x135)	type C boxes capacity (135x270)	weight	volume
<b>FB534S</b>	4	234 x 427 x 140	16	12	4	3.50	0.050
<b>FB544S</b>	4	234 x 565 x 140	24	16	8	3.90	0.050
<b>FB545S</b>	5	290 x 565 x 140	30	20	10	4.80	0.050

Handmade production enables Deltalab to manufacture **racks customised to your own specifications**. For more information contact our sales dept.



## Cryogenic storage boxes

### W-Coat

Vegetal fiber storage boxes for biological samples to temp down to **-196 °C** (phase vapour). Made with a spetial moisture repelent coating to ensure greater durability.

They are supplied assembled and include divider.

Size: 133 x 133 mm.

code	colour	height mm	dividers	cells Ø mm	case quantity	case weight	case volume
<b>With divisors</b>							
<b>W350900</b>	white	50	9x9	13	36	3.50	0.034
<b>W370900</b>	white	75	9x9	13	36	3.50	0.034
<b>W310900</b>	white	100	9x9	13	36	3.50	0.034
<b>Without divisors</b>							
<b>W350990</b>	white	50	no	-	36	2.80	0.034
<b>W370990</b>	white	75	no	-	36	2.80	0.034
<b>W310990</b>	white	100	no	-	36	2.80	0.034

Available in different box colours and different dividers for all sort of tubes. Contact our commercial department.



### W-Coat AIY fast-erecting (Without dividers)

Assemble it yourself vegetal fiber storage boxes for biological samples to temp down to **-80 °C**.

Made with a spetial moisture repelent coating to ensure greater durability.

code	case size mm	colour	case quantity	case weight	case volume
<b>W351100</b>	255x310x235	white	100	4.63	0.019

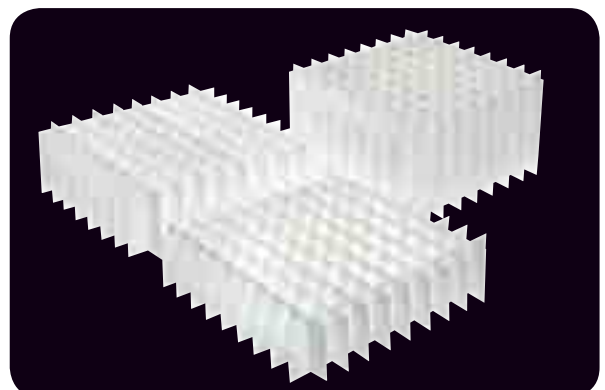


### Dividers to W-Coat and W-Coat AIY

Size: 133 x 133 mm. White colour.

code	dividers	cells Ø mm	height mm	case quantity	case weight	case volume
<b>W031230</b>	12 X 12	10	30	36	1,80	0,0070
<b>W031030</b>	10 X 10	12	30	36	1,80	0,0070
<b>W030930</b>	9 X 9	13	30	36	0,81	0,0050
<b>W030940</b>	9 X 9	13	40	36	0,81	0,0050
<b>W030965</b>	9 X 9	13	65	36	1,80	0,0070
<b>W030830</b>	8 X 8	15	30	36	0,81	0,0050

For other measures, contact our commercial department













### Variable speed VORTEX

Variable speed agitator with continuous or by pressure modes. Incorporates speed analogical control from 0 to 2,500 rpm. It has 4 rubber legs with sucker to avoid the displacement of the vortex during the functioning, and also it reduces the vibrations.

Model:	<b>Vortex</b>
Speed:	0 - 2.500 rpm
Orbit:	4 mm
Operation:	Continuous / Pressure
Dimensions:	127 x 130 x 160 mm
Equipment weight	3,5 Kg

code	description	case quantity	case weight	case volume
<b>LC1000</b>	Variable speed vortex	1	2.40	0.010



### Variable angle digital rotator CONVERT

Variable angle digital rotator. There are available some easily interchangeable platforms for tubes from 1,5 ml to 50 ml. It allows a variable rotation angle adjustment from 0 and 90 grades.

It incorporates a LCD display with a timer between 1 minute and 20 hours, and a speed controller from 10 to 70 rpm.

Model:	<b>Convert</b>
Speed	10 - 70 rpm
Rotation angle	0° - 90°
Timer	1 min. - 20 hours
Screen	LCD
Dimensions	510 x 190 x 260 mm
Equipment weight	4,5 Kg

code	description	case quantity	case weight	case volume
<b>LC2000</b>	Variable angle digital rotator	1	5.30	0.040

## Digital magnetic hotplate stirrer MAREA

The digital magnetic hotplate stirrer incorporates a high performance engine with low consumption.

The hotplate is made of ceramics with a high resistance to temperatures up to 340°C.

By means of the LCD display there are controlled the timer and the temperature.

It is provided with an external probe PT1000 for a precise temperature control.

Model	<b>Marea</b>
Plate dimension	135 mm
Agitation capacity	20 l
Speed	100 - 1.500 rpm
Temperature	TA a 340°C
RS232	Si
Dimensions	160 x 280 x 85 mm
Equipment weight	2.8 Kg

code	description	case quantity	case weight	case volume
<b>LC5000</b>	Digital magnetic hotplate stirrer	1	3.20	0.012



## Orbital digital shaker MOTION

The orbital digital shaker incorporates a wide range of accessories and interchangeable platforms for any kind of laboratory container.

With digital speed and agitation time control by means of a LCD display.

Dispose of a high performance engine without brushes that allows a maximum load of 7.5 kg.

Incorporates a safety system to avoid overpass the maximum speed required.

Model	<b>Motion</b>
Speed	100 - 500 rpm
Orbit	10 mm
Timer	1 min. a 20 hours
Maximum load	7,5 Kg.
Dimensions	420 x 370 x 100 mm
Equipment weight	13.5 Kg

code	description	case quantity	case weight	case volume
<b>LC3000</b>	Orbital digital shaker	1	13.06	0.043



## 3D orbital digital shaker MOTION 3D

3D orbital digital shaker with speed and agitation time control by means of a LCD display.

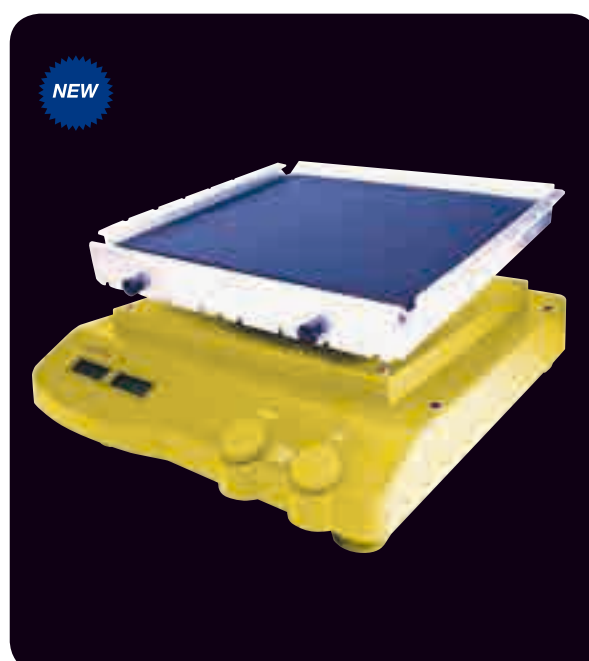
With a fix angle of 3D orbital agitation of 9 grades.

Dispose of a high performance without brushers that allows a maximum load of 5 kg.

Incorporates a safety system to avoid overpass the maximum speed required.

Model	<b>Motion 3D</b>
Speed	10 - 70 rpm
Orbital angle	9°
Timer	1 min. - 20 hours
Maximum load	5 kg.
Dimensions	430 x 360 x 106 mm
Equipment weight	9 Kg

code	description	case quantity	case weight	case volume
<b>LC4000</b>	3D orbital digital shaker	1	15.39	0.090





### Nichrome loops microincinerator

Desktop microincinerator for sterilization of Nichrome loops.

The device reaches a burning temperature of about **1000 °C** inside, but their external temperature does not exceed **30 °C**.

In this way there is no danger of burns and can be manipulated with gloves without any problem.

After reaching the sterilization temperature in 7 minutes, the loop is fully sterilized in only 2 seconds.

The material of the tube where the sterilization is performed is quartz so that it prevents the formation of aerosols.

Dimensions: 150x250x215 mm.

code	description	case quantity	case weight	case volume
<b>DEL001</b>	loops microincinerator	1	5.50	0.015

Product color subject to change based on availability.



### 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 °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 control periodically 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 610	1	16.00	0.12

## 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
<b>19230</b>	4.5	200	230	175	1	2.00	0.004
<b>19554</b>	9.2	250	300	225	1	1.38	0.017



## Dessicator discs

Material: white polypropylene. 25 holes. **Autoclavable.**

code	Ø mm	for dessicator	case quantity	case weight	case volume
<b>19553</b>	239	19554	10	1.67	0.005

Minimum order quantity: 1



## Glass dessicator

Body and cover made of 3.3 borosilicate glass. High chemical resistance. They are able to desiccate such as calcium chloride, silica gel, phosphorus pentoxide and even sulfuric acid.

Users must clean the sealing surfaces and lubricate them with vacuum grease.

It can maintain a 500mm Hg vacuum for 24 hours.

Dimensions: Ø 200mm, height 270mm.

Capacity approx. 2.5 l

code	description	case quantity	case weight	case volume
<b>19232</b>	glass desiccator with stainless steel plate	1	5.04	0.029
<b>19235</b>	glass desiccator with stainless steel plate with lock	1	4.73	0.031











mod. 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 (see page 245).

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, etc.).

mod.	code	autoclavable	capacity l	material (body and lid)	Ø mouth mm	Ø base mm	height mm	case quantity	case weight	case volume	cases per pallet
1	<b>241500</b>		1.5	PE	148	122	134	60	9.00	0.120	12
2	<b>242000</b>		2.0	PE	148	122	162	60	8.90	0.116	12
3	<b>244000</b>	✓	4.0	PP	195	175	172	40	11.68	0.147	12
4	<b>246000</b>	✓	6.0	PP	220	193	201	20	7.82	0.146	12
5	<b>240007</b>		7.0	PE	210	178	240	20	7.80	0.144	12



## 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 (see page 245).

Capacity: 1 l.

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.

In accordance with major European and international standards (ONU ADR, etc.).

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	7.90	0.150



## 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 standards and major European standards.

Code **240028** is total opening only.

mod.	code	capacity l	material (body / lid)	Ø mouth mm	Ø base mm	height mm	sales unit	sel.ut. weight	sel.ut. volume	cases per pallet
1	<b>240011</b>	11	PE / PP	260	226	255	10	5.45	0.048	40
2	<b>240021</b>	20	PE / PP	323	277	328	10	9.39	0.090	19
3	<b>240028</b>	25	PE / PE	323	283	387	10	9.71	0.100	13

## 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 quantity	bag weight	bag volume
1	<b>901531</b>	roll of 500 labels (labels size 25 x 25 mm)	1	0.07	0.0002
2	<b>901533</b>	bag of 10 units 200 x 250 mm	10	0.06	0.0010
3	<b>901538</b>	roll of 13 m x 25 mm	12	0.57	0.0013







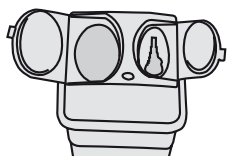
A  
mod. 1, 4



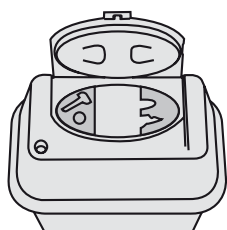
B  
mod. 2



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.

1. **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.
2. **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.
3. **232811**, 0.45 l capacity. Similar to the previous model, but in yellow colour, and featuring **device C**.
4. **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.
5. **232809**, 1 l capacity. Suitable in places where waste quantity to be disposed of is small. With a handle and devices **A and C**.
6. **232808**, 2 l capacity. Features devices **type D**.
7. **232801**, 4 l capacity. The most used container for discarding residues in general. Embodies devices **type D** and a handle.
8. **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. All of them are in accordance with ADR (UN). Excepting portable models (**260000**, and **232806**) the others are also in accordance with BS 7320, TRBA250 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. Produced in compliance with new international ISO 23907 (drilling, drop, liquid, stability), ADR, UN, NFX 30-500 (France), TRBA 250 (Germany), Ö Norm (Austria).

mod.	code	capacity l	container dimensions mm	opening devices	useful capacity l	container weight g	case quantity	case weight	case volume
1	<b>232810</b>	0.20	79 x 37 x 146	A	0.20	64	100	6.22	0.040
2	<b>260000</b>	0.45	105 x 50 x 167	B	0.35	88	100	10.00	0.080
3	<b>232811</b>	0.45	105 x 50 x 167	C	0.35	88	100	9.88	0.080
4	<b>232806</b>	0.60	110 x 55 x 220	A	0.47	112	100	12.30	0.112
5	<b>232809</b>	1.00	107 x 90 x 190	A+C	0.81	125	100	13.70	0.093
6	<b>232808</b>	2.00	195 x 120 x 170	D	1.60	216	50	12.50	0.092
7	<b>232801</b>	4.00	175 x 175 x 248	D	3.00	310	50	16.73	0.130
8	<b>232802</b>	7.00	175 x 175 x 382	D	5.60	434	50	23.78	0.200

### DEVICES:

- A. Oval aperture for syringes and lancets.  
 B. Removal of needles with non return system.  
 C. Removal of luerlock, luer slip and pen needles.  
 D. Five kinds of aperture: 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. Suitable for liquid and solid products or products with a certain level of humidity. In accordance with UN ADR (road transport), and manufactured pursuant new French Standard NFX 30 507. 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	quantity	capacity l	container dimensions mm	maximum load kg	weight ut. g	pallet dimensions	pallet quantity
3	<b>250050</b>	10	50	263 x 263 x 756	12.5	660	100 x 120 x 180	40 x 10
4	<b>270045</b>	10	50	290 x 377 x 490	18.0	860	120 x 100 x 220	300

### Clasificación de waste by type:

**Type I waste:** medical waste treated as municipal waste. Easy management (cardboard, paper, office equipment, kitchens, garages, gardening and non-infectious patients waste).

**Type II waste:** non specific medical waste. Preventive measures in the handling, collection, storage and transport in the field of health center (dressing materials, plasters, clothing and single-use material contaminated with blood, secretions and/or excretions).

**Type III waste:** specific health waste or risk waste. Preventive measures in the handling, collection, storage, transportation, treatment and disposal, as they may pose a health risk to workers and the public. They can be divided into 5 groups: medical waste or infectious anatomical waste, blood and blood products in liquid, needles, sharps and live attenuated vaccines.

**Type IV waste:** waste specified in singular regulations. Subject to especial requirements from the point of view of hygiene and environment. Include: cytostatic waste, chemical residues, expired pharmaceuticals, minerals and

synthetic oils, waste metals, radioactive waste and human anatomical remains entity.

Source: NTP 372 – Spanish National Institute of Safety and Health at Work.

## Rectangular waste containers (PP)

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. Closing sealed for air and gas. Manufactured following new French Standard NFX 30 505.

mod	code	quantity	capacity l	container dimensions mm	maximum load (ADR) kg	weight ut. g	pallet dimensions	pallet quantity
1	<b>240035</b>	10	30	415 x 314 x 373	14	1.400	80 x 120 x 200	130
2	<b>240065</b>	10	60	415 x 314 x 575	25	1.984	80 x 120 x 200	115



## Sterilization indicator tapes

Self-adhesive sterilisation indicator tapes made of semicreped paper. It sticks on different surfaces such as plastic, metal, fabrics, paper, cardboard, etc. 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 green 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	0.93	0.0027
2	<b>191051</b>	dry heat (poupinel)	50	19	8	1.06	0.0043
3	<b>191052</b>	autoclave	50	19	8	1.08	0.0043

## 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	0.33	0.0007
2	<b>191223</b>	roll of 19 mm x 13 m	8	0.33	0.0007



## 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
<b>192928</b>	6.3 x 3	24 x 100	2.86	0.011



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** a **121°C**.

code	dimensions cm	materiel	aprox. capacity l	tickness microns	bag quantity	bag weight	bag volume
200310	30 x 60	PP	12	37.5	500	5.99	0.013
200311	40 x 75	PP	24	37	300	6.10	0.023
200100	50 x 75	PE	34	30	100	2.05	0.006
200312	60 x 75	PP	49	37	200	6.25	0.020
200318	75 x 90	PP	100	37	100	4.36	0.011

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	10.93	0.017
200322	78 x 96	121.0	200	13.25	0.029



Bottles for sterilization

Made of soda glass 3.3. **Autoclavable** up to **140 °C**.

Graduations printed in white colour. Screw caps (**GL45**) made of blue polypropylene.

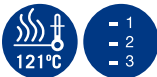
Ribbed screw caps for a better handling.

Drip ring on bottle neck to avoid dripping. Ideal for chemical reagents and culture media.

They can be used fo freeze substances up to **-40 °C**.

It is recommended to freeze them in an inclined position (ca 45°) and filled up to max. 3/4.

code	capac. ml	screw	Ø ext. mm	height mm	case quantity	case weight	case volume
402001	100	GL45	56	100	10	1.68	0.004
402002	250	GL45	70	138	10	2.65	0.008
402005	500	GL45	86	176	10	4.12	0.015
402010	1,000	GL45	101	225	10	6.42	0.027
402020	2,000	GL45	136	260	10	11.13	0.054







## Coloured adhesive tapes for sample identification

Ideal for use in freezers, autoclaves, etc. Peel off without leaving a sticky residue.

Withstand temperatures from **-50 °C** to **130 °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, etc.

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	1.78	0.005
<b>191221.2</b>	red	55	12	1.78	0.005
<b>191221.3</b>	yellow	55	12	1.78	0.005
<b>191221.4</b>	green	55	12	1.78	0.005
<b>191221.5</b>	orange	55	12	1.78	0.005
<b>191221.6</b>	blue	55	12	1.78	0.005
<b>191220</b>	dispenser	-	1	2.75	0.005

Minimum order quantity: 1



## Adhesive labels

White colour.

code	description	bag quantity	bag weight	bag volume
<b>901031</b>	55 x 37 mm printed	2 x 5,000	2.34	0.003
<b>901031.2</b>	55 x 37 mm plain	2 x 5,000	1.20	0.003
<b>901041</b>	50 x 30 mm printed	1 x 10,000	2.70	0.002
<b>901016</b>	50 x 30 mm plain	1 x 10,000	2.34	0.005
<b>901030</b>	35 x 25 mm printed	2 x 7,500	2.25	0.006



## 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	0.04	0.0002



Safety glasses

Made of polycarbonate (1.5 mm thickness).  
Scratch resistant, antifogging, antistatic lenses.  
Protect against UV rays.  
With lateral vents. Conform to EN 166 standard.  
Eyepiece dimensions: 145 x 65 mm.

code	description	quantity	weight	volume
19385	glasses	5	0.47	0.002



Safety glasses

Made of polycarbonate (2 mm thickness).  
Can be worn over conventional corrective glasses.  
Conform to EN 166, EN 167, EN 168, EN 169, EN 171 and EN 172. Standard.  
Eyepiece dimensions: 152 x 60 mm.

code	description	quantity	weight	volume
19386	glasses	12	0.69	0.004



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	0.25	0.004





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	0.05	0.0004



## 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.

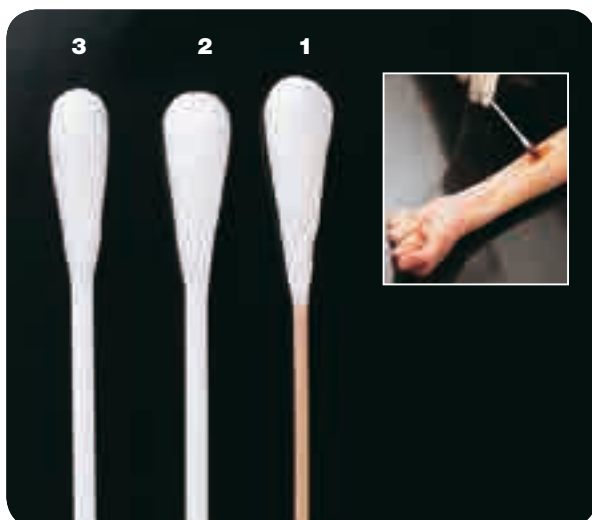
code	description	colour	bag quantity	bag weight	bag volume
<b>W-100</b>	up to 2 ml	blue	1	0.06	0.0002
<b>W-110</b>	up to 10 ml	green	1	0.06	0.0002
<b>W-120</b>	up to 25 ml	red	1	0.06	0.0002

## 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	0.34	0.005



## Hospital swabs

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
<b>1</b>	<b>300234</b>	wood + cotton 150 x 2.5 mm	20 x 50	2.20	0.012
<b>2</b>	<b>300236</b>	polypropylene + cotton 150 x 4 mm	20 x 50	2.30	0.012
<b>3</b>	<b>300237</b>	polypropylene + cotton 200 x 4 mm	10 x 50	3.30	0.012



## 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	5.30	0.078
<b>44300000</b>	500	30	75	185	60	4.85	0.080
<b>44310000</b>	1,000	30	90	222	45	5.02	0.110



## Wide mouth wash bottles

Translucent low density polyethylene bottles, with screw cap and delivery tube available in 3 different colours (natural, 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	cap colour	int. neck Ø mm	base Ø mm	height mm	case quantity	case weight	case volume
<b>191637</b>	250	natural	38	60	140	10	0.55	0.009
<b>191637.04</b>	250	blue	38	60	140	10	0.55	0.009
<b>191637.06</b>	250	yellow	38	60	140	10	0.55	0.009
<b>191637.10</b>	250	red	38	60	140	10	0.55	0.009
<b>191638</b>	500	natural	38	75	165	10	1.01	0.019
<b>191638.04</b>	500	blue	38	75	165	10	1.01	0.019
<b>191638.06</b>	500	yellow	38	75	165	10	1.01	0.019
<b>191638.10</b>	500	red	38	75	165	10	1.01	0.019



## 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	0.68	0.008
<b>191634</b>	500	181	GL32	10	0.84	0.015







## Wood tongue depressors

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".

Size: 15 x 1.8 cm.

code	description	case quantity	case weight	case volume	cases per pallet
<b>441142</b>	non sterile	50 x 100	13.78	0.027	40
<b>441242.2</b>	<b>STERILE EO</b> individual flow-pack	4 x 500	12.66	0.070	24

Sterile models are supplied with "instructions for use".



## Plastic tongue depressors

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
<b>441142.1</b>	non sterile	6 x 250	8.30	0.014	108
<b>441142.2</b>	<b>STERILE EO</b> individual flow-pack	4 x 500	12.66	0.070	24

Sterile models are supplied with "instructions for use".



## Absorbent paper

This 125 g/m<sup>2</sup> 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: 0.250 mm.

Absorption: 240 g/m<sup>2</sup>. Klemm absorption: 86 mm.

code	description	case quantity	case weight	case volume
<b>120003</b>	50 m x 50 cm reel	1 reel	3.01	0.009
<b>120002</b>	50 x 50 cm sheets	1x100 sheets	2.90	0.008



## 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
<b>120010</b>	50 x 50 cm	73 g/m <sup>2</sup>	0,170 ±0,02	89	1x100 sheets	2.04	0.006

### Urine collection bottle

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	5.40	0.160	12

Supplied with "instructions for use".



### Urine collection bottle with lid

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	6.54	0.160	12

Supplied with "instructions for use".



### Bed pan

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	10.69	0.140	12

Supplied with "instructions for use".



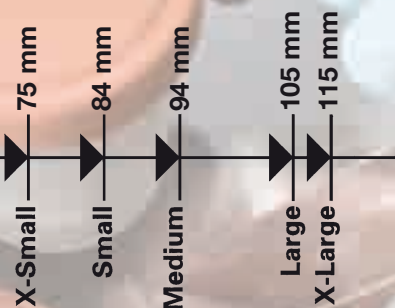
### Safety gloves

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 °C** up to **260 °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
19270	190 x 100	1	0.19	0.001



## CHOOSE YOUR GLOVE SIZE - MEASURE YOUR HAND



See more information about our gloves in Chapter 0. Technical Information (page 12)

## Nitrile gloves

Single-use gloves made of blue nitrile. Powder-free. Non sterile. Suitable for medical and laboratory use. Supplied in convenient dispenser boxes of 100 units. Opening box with pre-drilled at the top.

Easy and convenient removal of the glove.

Indication of height in dispenser box and carton. Maximum safety and waterproof gloves, they are three times more resistant than latex gloves.

Antistatic, ambidextrous and ergonomic.

Beaded cuff, reinforced ensuring easy installation and preventing it from rolling. High sensitivity to touch.

Finish: microtextured outer surface on the fingertips, it provides greater grip strength. Chlorinated inner surface, smooth and comfortable. Use temperature range: -20 °C to 50 °C. Free of protein.

Made of materials suitable for food use.

In compliance with:

- CE mark According to Directive 93/42/CE.
- European Standards: EN 420, EN 374, EN 455, EN 388.
- Directives PPE: 89/686/EEC (Category III)
- ASTM D 6978-05, ASTM F 1671, ASTM F 1670

code	size	description	case quantity	case weight	case volume
<b>4020NP</b>	small (6-7)	powder-free nitrile gloves	10 x 100	3.90	0.021
<b>4020NM</b>	medium (7-8)	powder-free nitrile gloves	10 x 100	4.20	0.021
<b>4020NG</b>	large (8-9)	powder-free nitrile gloves	10 x 100	4.50	0.021

Expiration: 60 month from manufacturing date

### Thickness:

Finger: 0,10 mm (± 0,02 mm)

Palm: 0,07 mm (± 0,02 mm)

Fist: 0,05 mm (± 0,02 mm)





## Vinyl gloves



Single use transparent vinyl gloves, suitable for medical, laboratory, or cleaning and disinfection. Powder-free. Made of high-density polyvinyl chloride.

Non sterile.

Ambidextrous. With beaded cuff, reinforced ensuring easy installation and preventing them from rolling.

High sensitivity to touch.

Free of latex proteins.

Supplied in boxes of 100 units.

Temperature range: -20 °C to 50 °C

In compliance with:

- CE mark According to Directive 93/42/CE.
- European Standards: EN 420, EN 374, EN 455, EN 388.
- Directives PPE: 89/686/EEC (Category III)

code	size	description	case quantity	case weight	case volume
<b>2020VP</b>	small (6-7)	powder-free vinyl gloves	10 x 100	5.10	0.159
<b>2020VM</b>	medium (7-8)	powder-free vinyl gloves	10 x 100	5.50	0.159
<b>2020VG</b>	large (8-9)	powder-free vinyl gloves	10 x 100	5.90	0.159

Expiration: 60 month from manufacturing date

### Thickness:

Finger: 0,08 mm (± 0,02 mm)

Palm: 0,07 mm (± 0,02 mm)

Fist: 0,06 mm (± 0,02 mm)

## Latex gloves



Single use gloves, suitable for medical, laboratory use, industries, etc.

Made of top quality natural colour latex.

Supplied in convenient dispenser boxes of 100 units.

Ambidextrous, ergonomic and have beaded cuffs, which makes them more resistant. Non sterile.

2 versions: powder-free or pre-powdered. Pre-powdered model contains cornstarch.

In compliance with regulations:

- Registered as CE MDD
- Directive 93/42/EEC. Medical devices
- Directive on Personal Protective Equipment (PPE) 89/686/EEC (Category III)
- European Standards EN 455, EN 374, EN 420, EN 380.
- Micro perforations Inspection Level: AQL 1.5
- Free of all chemicals contained in the "candidate list" of REACH.

code	size	description	case quantity	case weight	case volume
<b>1020LP</b>	small (6-7)	powder-free	10 x 100	6.11	0.020
<b>1020LM</b>	medium (7-8)	powder-free	10 x 100	6.13	0.020
<b>1020LG</b>	large (8-9)	powder-free	10 x 100	6.96	0.020
<b>1000LSP</b>	extra-small (5-6)	pre-powder	10 x 100	5.40	0.018
<b>1000LP</b>	small (6-7)	pre-powder	10 x 100	5.60	0.018
<b>1000LM</b>	medium (7-8)	pre-powder	10 x 100	6.00	0.018
<b>1000LG</b>	large (8-9)	pre-powder	10 x 100	6.30	0.019

Expiration: 60 month from manufacturing date

### Thickness:

#### Latex gloves with powder

Finger: 0,12 mm (± 0,03 mm)

Palm: 0,09 mm (± 0,03 mm)

Fist: 0,08 mm (± 0,03 mm)

#### Latex gloves without powder

Finger: 0,10 mm (± 0,03 mm)

Palm: 0,09 mm (± 0,03 mm)

Fist: 0,07 mm (± 0,03 mm)







### 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	0.78	0.010
408050	50	10	1.0	26	200	30	1.10	0.010
408100	100	10	1.0	31	250	30	1.47	0.018
408250	250	20	2.0	41	315	12	1.40	0.015
408500	500	50	5.0	56	360	12	1.94	0.029
481000	1,000	100	10.0	66	440	6	1.58	0.029
482000	2,000	200	20.0	80	530	6	3.75	0.048

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
192562*	50	10	1.0	26	200	30	1.15	0.011
192563*	100	10	1.0	31	250	30	1.33	0.021
192564	250	20	2.0	41	315	12	1.50	0.014
192565	500	50	5.0	56	360	12	2.50	0.028
192566*	1,000	100	10.0	66	440	6	2.15	0.029
192567*	2,000	200	20.0	80	530	6	3.25	0.048

\*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
192572	50	10	1.0	26	200	30	1.15	0.011
192573	100	10	1.0	31	250	30	1.40	0.018
192574	250	20	2.0	41	315	12	1.45	0.014
192575	500	50	0.5	56	360	12	2.45	0.028
192576	1,000	100	10.0	66	440	6	2.15	0.030

Minimum order quantity: 1.



## Volumetric flasks with stopper

Material: polypropylene. **Autoclavable** up to 121 °C.

code	capac. ml	height mm	Ø base mm	neck	case quantity	case weight	case volume
<b>191484</b>	25	25	36	12 / 21	20	0.24	0.002
<b>191485</b>	50	50	46	14 / 23	20	0.32	0.005
<b>191486</b>	100	100	58	14 / 23	20	0.39	0.012
<b>191487</b>	250	250	82	19 / 26	10	0.52	0.010
<b>191488</b>	500	500	100	19 / 26	10	0.60	0.018
<b>191489</b>	1,000	1,000	120	19 / 26	5	0.55	0.019

Minimum order quantity: 1.

## Erlenmeyer flasks

Material: polypropylene. **Autoclavable** up to 121 °C. Graduated.

code	capac. ml	grad. ml	neck	quantity	weight	volume
<b>191461</b>	125	25	14.5 / 23	1	0.03	0.0006
<b>191462</b>	250	25	19 / 26	1	0.04	0.0001
<b>191463</b>	500	50	24 / 29	1	0.10	0.0002
<b>191464</b>	1,000	50	29 / 32	1	0.20	0.0002
<b>191465</b>	2,000	100	34.5 / 35	1	0.30	0.0004



### 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.



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	0.17	0.002
191721	50	2	42	60	20	0.29	0.004
191722	100	5	52	72	12	0.70	0.004
191723	250	10	71	96	16	1.45	0.011
191724	500	10	90	120	12	2.10	0.015
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	0.014

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
191822	50	2	42	60	20	0.31	0.004
191823	100	5	52	72	12	0.35	0.004
191824	250	10	71	96	16	0.75	0.010
191825	500	10	90	120	12	1.05	0.015
191826	1,000	20	110	149	4	0.50	0.010
191827	2,000	50	135	184	4	0.60	0.018
191828	3,000	500	160	200	2	0.90	0.014
191829	5,000	500	191	230	2	1.40	0.022



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
409050	50	42	60	20	0.29	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	0.015
491000	1,000	110	149	4	0.49	0.009
492000	2,000	135	184	4	0.86	0.017
493000	3,000	160	200	2	0.88	0.022
495000	5,000	191	230	2	2.00	0.022



## Beakers with three spouts

**Graduated** beakers made of ultra clear polypropylene **Autoclavable** up to **121 °C**.  
Disposable.  
Moulded-in graduations.

code	volume ml	minimum order quantity	case quantity	case weight	case volume
<b>490050</b>	50	10	100	1.02	0.011
<b>490100</b>	100	25	100	1.38	0.011
<b>490250</b>	250	10	100	2.50	0.028
<b>490400</b>	400	10	100	3.30	0.044
<b>490900</b>	900	10	100	5.89	0.060



## Conical measuring flasks

In polypropylene. **Autoclavable** up to **121 °C**.

code	volume ml	height mm	case quantity	case weight	case volume
<b>19423</b>	250	160	18	1.14	0.019
<b>19424</b>	500	180	8	1.00	0.028
<b>19425</b>	1,000	270	3	0.81	0.016



## 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
<b>191537</b>	250	50 / 1	96	67	1	0.05	0.001



### PFA main features:

This is a type of polyethylene where hydrogen atoms have been replaced by fluorine ones, commonly called «fluocarbons».

- Unbreakable, resistant to almost all temperatures
- Resistant to almost all chemical products, except fluorine and other alkaline metals during fusion
- Non flammable

Highly recommended for those cases where extreme conditions of transport and storage are required.

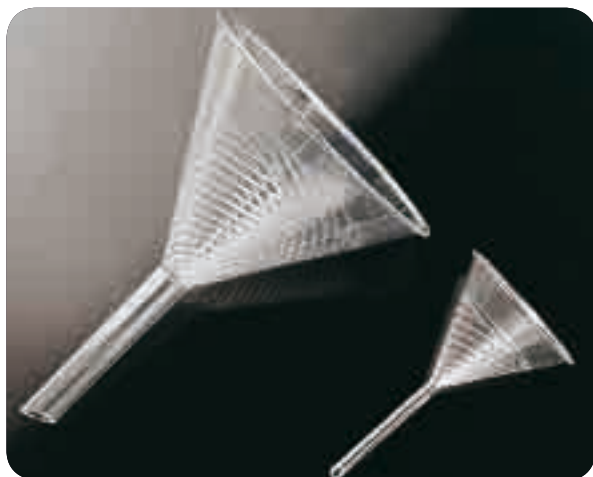




## Analytical funnels

Material: polypropylene. **Autoclavable.**  
60° angle.

code	Ø mm	stem Ø mm	length stem mm	total length mm	case quantity	case weight	case volume
<b>19147</b>	45	5	43	79.0	20	0.07	0.0036
<b>19148</b>	65	9	62	112.0	20	0.20	0.0110
<b>19150</b>	80	10	70	132.0	20	0.34	0.0135
<b>19152</b>	100	11	82	161.5	1	0.03	0.0007
<b>19153</b>	120	11	86	184.0	1	0.04	0.0038



## 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
<b>19175</b>	51	3	150	6	0.12	0.0022
<b>19172</b>	70	3	150	6	0.19	0.0042
<b>19173</b>	100	7	108	4	0.26	0.0063
<b>19174</b>	140	10	132	6	0.96	0.0250



## Long-stem funnels

Material: polypropylene. 60° angle. **Autoclavable.**

code	Ø mm	stem Ø mm	length stem mm	total length mm	case quantity	case weight	case volume
<b>19162</b>	60	8	150	194	10	0.16	0.011
<b>19164</b>	80	8	143	206	10	0.20	0.017



## Funnels

Material: polypropylene.  
**Autoclavable.**

code	stem internal Ø mm	stem external Ø mm	bouche mm	quantity	weight	volume
<b>194171</b>	5.7	8.1	80	1	0.03	0.0001
<b>194172</b>	9.1	11.7	100	1	0.03	0.0005
<b>194173</b>	9.6	13.0	120	1	0.04	0.0005
<b>194175</b>	13.9	18.2	180	1	0.09	0.0013
<b>194176</b>	18.5	21.8	220	1	0.17	0.0028
<b>194177</b>	21.7	26.4	260	1	0.29	0.0081
<b>194178</b>	24.7	29.7	300	1	0.37	0.0110



## Powder funnels

Material: polypropylene. **Autoclavable**. 60° angle.

code	Ø ext. mm	stem Ø mm	case quantity	case weight	case volume
<b>19167</b>	80	15	20	0.28	0.013
<b>19168</b>	100	25	20	0.57	0.011
<b>19169</b>	120	30	1	0.05	0.001
<b>19166</b>	180	40	1	0.09	0.009



## «IMHOFF» sedimentation cone

Material: SAN. Moulded graduations according to DIN standards 12672.

Resistant to temperatures from **-20 °C to 85 °C**.

Graduation to 1, 2, 4, 6, 8, 10, 20, 30, 40, 60, 80, 100, 200, 300, 400, 500, 600, 700, 800, 900 et 1000 ml.

mod.	code	capac. mm	Ø mm	height mm	case quantity	case weight	case volume
1	<b>191055</b>	1,000	125	480	4	1.75	0.019



## Rack for sedimentation cones

Material: PMMA.

For 2 cones. Resistant to temperatures from **-40 °C to 85 °C**.

mod.	code	dimensions mm	case quantity	case weight	case volume
2	<b>191056</b>	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	filter Ø mm	upper Ø mm	bottom Ø mm	holes mm	case quantity	case weight	case volume
<b>19438</b>	70	55	15.9	10.7	1	1	0.05	0.007
<b>19440</b>	285	80	17.7	11.4	1.5	1	0.13	0.002
<b>19441</b>	390	90	17.7	11.2	2	1	0.20	0.003
<b>19442</b>	810	110	30.1	22.6	2	1	0.30	0.004
<b>19443</b>	2,100	160	30.4	19.7	2.5	1	0.60	0.012
<b>19445</b>	6,000	240	37.7	23.7	3	1	1.00	0.028





### Burette clamps

Made of **autoclavable** polypropylene.

Clamps can fit onto rods Ø 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	0.22	0.006
2	<b>19140</b>	for 2 burettes	5	0.32	0.013

### 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 Ø 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	0.001
4	<b>19267</b>	base with off-centre hole and + 2 rods	1	0.80	0.005

Rods available separately.

Please contact our Commercial department.



### Funnel holders

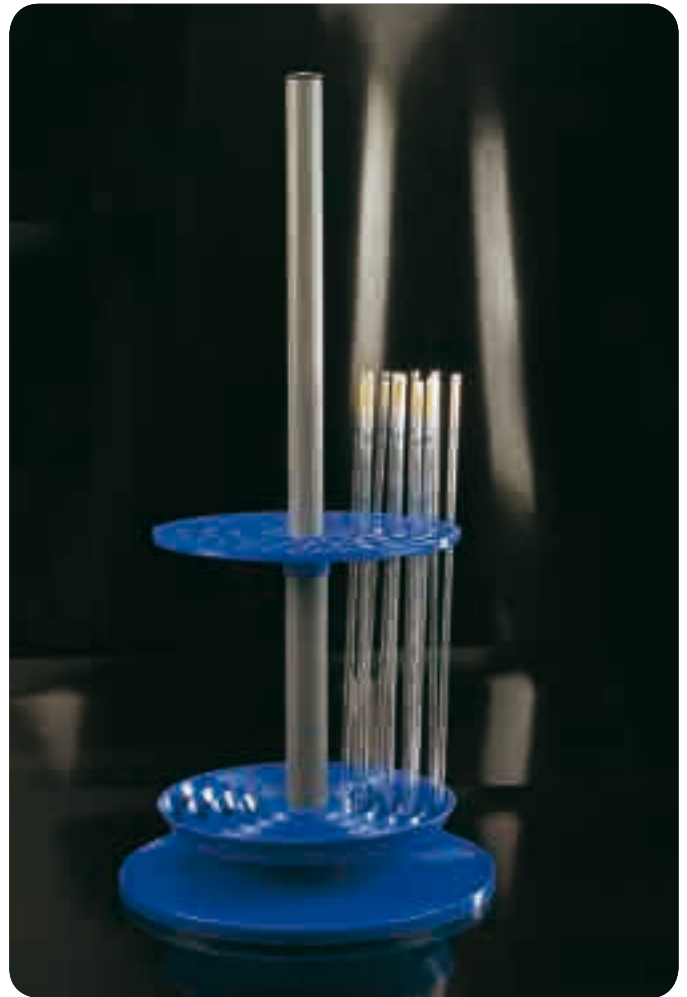
Made of **autoclavable** polypropylene.

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 Ø 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>19269</b>	for 2 funnels	5	0.65	0.001



## 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	0.24	0.002
<b>19265</b>	18 small and 10 large holes stand	1	0.35	0.007

## 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 to 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 39 and 193, except the 25 ml model.

code	dimensions mm (Ø x h)	case quantity	case weight	case volume
<b>19254</b>	230 x 480	1	0.39	0.005







## 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	0.32	0.0003
<b>192471</b>	250 - 1,000 ml	51	1	0.59	0.0010
<b>192472</b>	500 - 2,000 ml	57	1	0.64	0.0004



## 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 dismounted for easy cleaning.

code	description	quantity	weight	volume
<b>191395</b>	water jet vacuum pump	1	0.03	0.00001

Minimum order quantity: 1.



## Pipette and burette rinsing set

Made of polyethylene and polypropylene.

Can hold pipettes and burettes of length up to 60 cm.

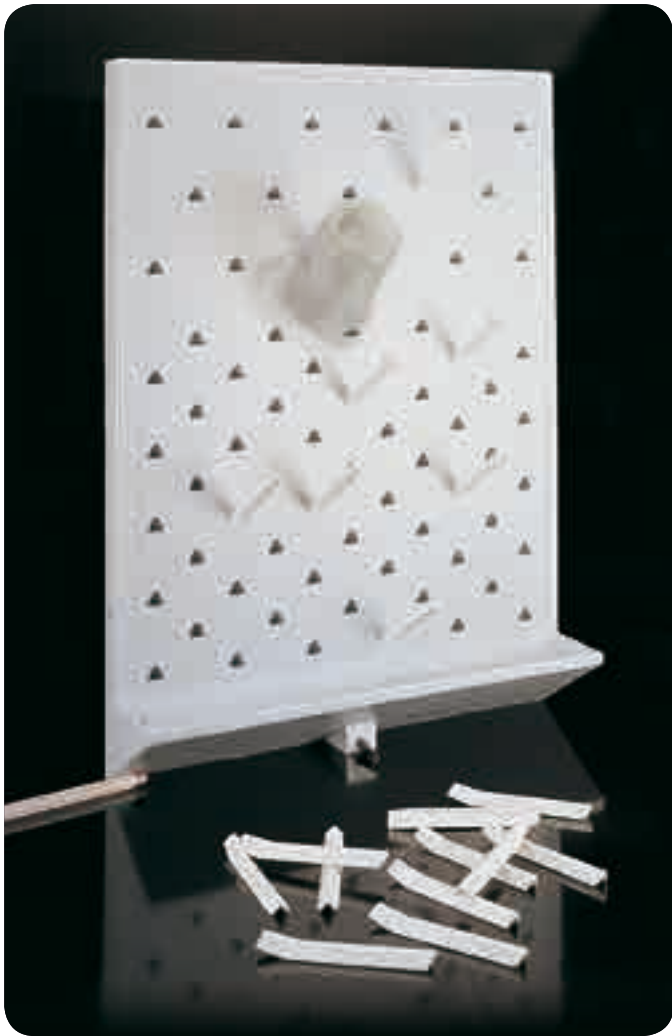
Ensures a fast, safe washing.

Ideal for use in labs where caustic and toxic materials are used.

code	description	height mm	Ø mm	case quantity	case weight	case volume
<b>19215</b>	burette washer	990	165	1	3.50	0.11000
<b>19217</b>	pipette washer	734	165	1	3.35	0.08000
<b>19218</b>	pipette jar	650	165	1	1.80	0.04200
<b>19219</b>	pipette basket	650	130	4	2.00	0.02600
<b>19221</b>	pipette jar	500	165	1	1.50	0.03000
<b>191219</b>	extension for 19219	650	130	2	0.56	0.00001

Suggested sets:

- For pipettes: 1 x **19217**  
2 x **19219**  
1 x **19218**
- For shorter pipettes: 1 x **19217**  
1 x **19221**
- For burettes: 1 x **19215**  
2 x **19219**  
2 x **191219**  
1 x **19218**



### Drying rack

Wall mountable high impact white polystyrene drying rack 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 accomodate 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	4.00	0.045



### 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
19212	640 x 360 x 140	1	2.12	0.130





## Laboratory spatulas

Material: polystyrene.

code	description	length mm	bag quantity	bag weight	bag volume
<b>19593</b>	spatula-spoon	210	10	0.008	0.0005
<b>19596</b>	spatula-spoon	180	10	0.008	0.0005



## Measuring scoops

Material: white polypropylene. **Autoclavable.**

Made with materials suitable for alimentary use.

code	capacity ml	alimentary use	length mm	bag quantity	bag weight	bag volume
<b>191057</b>	10	✓	100	12	0.06	0.0004
<b>191058</b>	25	✓	135	12	0.10	0.0016
<b>191059</b>	50	✓	160	12	0.16	0.0045
<b>191060</b>	100	✓	200	12	0.29	0.0054
<b>191062</b>	250	✓	260	6	0.27	0.0076
<b>191063</b>	500	✓	315	6	0.46	0.0130
<b>191064</b>	1,000	✓	400	6	0.73	0.0150



## Measuring scoops

Material: high density polyethylene.

Made with materials suitable for alimentary use.

code	capacity ml	alimentary use	length mm	bag quantity	bag weight	bag volume
<b>191065</b>	25	✓	135	12	0.08	0.0014
<b>191066</b>	65	✓	185	12	0.20	0.0011
<b>191067</b>	110	✓	215	12	0.35	0.0036
<b>191068</b>	150	✓	250	12	0.42	0.0040
<b>191070</b>	350	✓	310	6	0.39	0.0050
<b>191071</b>	750	✓	350	6	0.69	0.0190
<b>191069</b>	1,000	✓	400	6	0.99	0.0115



## PVC Pipette tray

Made of white PVC, resistant to temperatures from **-20 °C** 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	<b>19252</b>	426 x 300 x 30	1	0.53	0.006
2	<b>19996</b>	283 x 216 x 40	6	1.38	0.017

See our range of pipettes on pages 41 and 193.



## PVC Antiacid trays

Resistant to temperatures from **-20 °C** to **80 °C**. Ideal for photographic purposes thanks to their ribbed interior surface.

code	int. dimensions mm	ext. dimensions mm	quantity	weight	volume
<b>19280</b>	200 x 150 x 45	245 x 195 x 50	1	0.15	0.0007
<b>19281</b>	250 x 200 x 60	305 x 250 x 60	1	0.24	0.0012
<b>19282</b>	320 x 260 x 70	385 x 325 x 75	1	0.47	0.0021
<b>19283</b>	350 x 300 x 80	420 x 375 x 85	1	0.52	0.0026
<b>19284</b>	430 x 330 x 90	505 x 405 x 95	1	0.79	0.0043
<b>19285</b>	520 x 420 x 90	600 x 495 x 100	1	1.15	0.0080



## High impact polystyrene trays

Temperatures range from **-10 °C** to **70 °C**.

code	int. dimensions mm	ext. dimensions mm	body weight g	quantity	weight	volume
<b>195701</b>	170 x 110 x 10	201 x 151 x 21	78	20	1.80	0.007
<b>195703</b>	320 x 220 x 10	353 x 252 x 21	217	20	5.72	0.014
<b>195705</b>	150 x 100 x 30	201 x 151 x 41	91	20	1.88	0.007
<b>195706</b>	260 x 110 x 30	303 x 151 x 42	134	20	2.76	0.008
<b>195707</b>	310 x 210 x 30	353 x 253 x 41	254	20	6.00	0.019
<b>195709</b>	140 x 90 x 70	202 x 151 x 81	110	20	2.36	0.008
<b>195711</b>	290 x 190 x 70	352 x 252 x 81	299	20	6.64	0.023
<b>195713</b>	380 x 270 x 10	408 x 300 x 21	345	10	3.50	0.014



## Weighing bottles

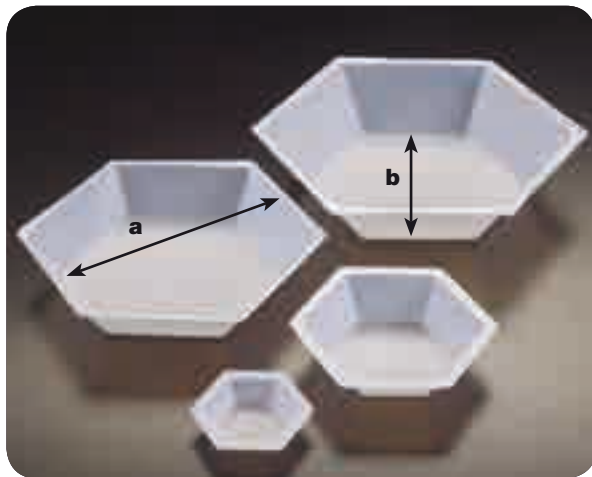
Light-weight, re-usable and **autoclavable**, made of translucent polypropylene. Push on lids ensure an airtight seal.

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
<b>19345</b>	10	50	50	30	10	0.11	0.005







## 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 °C** to **-10 °C**.

code	capacity ml	upper Ø (a) x lower Ø (b)	case quantity	case weight	case volume
<b>1911106</b>	9	35 x 25	500	0.28	0.001
<b>1911107</b>	50	64 x 47	500	1.00	0.004
<b>1911108</b>	200	110 x 85	500	2.30	0.007
<b>1911109</b>	350	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 °C** to **-10 °C**.

Made with materials that comply with FDA regulations concerning plastic materials in contact with food (styrene waste under 21 CFR 177.1640)

code	dimensions	weight g	bag quantity	bag weight	bag volume
<b>1911103</b>	41 x 41 x 8	0.34	500	0.32	0.001
<b>1911104</b>	89 x 89 x 25	1.07	500	1.39	0.005
<b>1911105</b>	140 x 140 x 22	3.27	500	3.47	0.013



## Rhomboid weighing dishes

Polystyrene flexible weighing dishes with a smooth surfaces to provide accurate pour-outs with minimal sample loss. Biologically inert, contaminant-free, they are resistant to diluted acids, aqueous solutions, alcohols and bases.

Wide, flat bottom to resist tipping.

**Antistatic.**

Suitable for microwave. Will withstand temperatures from **70°C** to **-10°C**.

code	capacity ml	colour	dimensions	bag quantity	bag weight	bag volume
<b>1911110</b>	5	white	55 x 35 x 6	500	0.200	0.0010
<b>1911111</b>	30	white	78 x 56 x 14	500	0.520	0.0028
<b>1911112</b>	100	white	119 x 90 x 19	500	1.340	0.0082
<b>1911113</b>	5	black	55 x 35 x 6	500	0.230	0.0010
<b>1911114</b>	30	black	78 x 56 x 14	500	0.500	0.0025
<b>1911115</b>	100	black	119 x 90 x 19	500	1.320	0.0079



## Watch glasses

Made of **autoclavable** polypropylene. Moulded base for more stability.

Easy **cleaning**.

code	weight g	Ø mm	case quantity	case weight	case volume
<b>19454</b>	5.5	80	10	0.06	0.002
<b>19455</b>	10	100	10	0.10	0.002



## 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	5.30	0.078
<b>44300000</b>	500	30	75	185	60	4.85	0.080
<b>44310000</b>	1,000	30	90	222	45	5.02	0.110



## Wide mouth wash bottles

Translucent low density 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.  
DIN: GL45.

code	capac. ml	cap colour	int. neck Ø mm	base Ø mm	height mm	case quantity	case weight	case volume
<b>191637.04</b>	250	blue	38	60	140	10	0.64	0.018
<b>191637.06</b>	250	yellow	38	60	140	10	0.64	0.018
<b>191637.10</b>	250	red	38	60	140	10	0.64	0.018
<b>191638.04</b>	500	blue	38	75	165	10	0.84	0.019
<b>191638.06</b>	500	yellow	38	75	165	10	0.84	0.019
<b>191638.10</b>	500	red	38	75	165	10	0.84	0.019



## 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	0.68	0.008
<b>191634</b>	500	181	GL32	10	0.84	0.015



HYGIENE, SAFETY AND GENERAL LABWARE



### 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.

Made with materials suitable for alimentary use.

code	dimensions mm Ø int. x Ø ext.	bag weight	bag volume
<b>350613</b>	6 x 13	2.10	0.004
<b>350815</b>	8 x 15	2.33	0.013
<b>359517</b>	9.5 x 17	3.06	0.015



### 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	0.030
<b>350004</b>	4	1	1.20	0.001



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.**  
Made with materials suitable for alimentary use.

Technical features:

Specific gravity: 1.2 + 0.1  
Toughness: 40 - 80 Sh  
Resistance to traction: 77-95 kg/cm2  
Extension: 275-780%  
Resistance to tearing: 20-50 kg/cm2  
Temperature range: **-50 °C 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	0.08	0.0011
350013	1 x 3	1 x 15	0.12	0.0010
350024	2 x 4	1 x 15	0.23	0.0016
350034	3 x 4	1 x 15	0.22	0.0043
350035	3 x 5	1 x 15	0.26	0.0026
350037	3 x 7	1 x 15	0.51	0.0032
350046	4 x 6	1 x 15	0.56	0.0026
350048	4 x 8	1 x 15	0.80	0.0043
350057	5 x 7	1 x 15	0.38	0.0039
350059	5 x 9	1 x 15	0.83	0.0047
350069	6 x 9	1 x 15	0.61	0.0100
350610	6 x 10	1 x 15	0.83	0.0096
350612	6 x 12	1 x 15	0.22	0.0043
350079	7 x 9	1 x 15	0.63	0.0091
350710	7 x 10	1 x 15	0.70	0.0076
350810	8 x 10	1 x 15	0.67	0.0091
350812	8 x 12	1 x 15	1.11	0.0054
350814	8 x 14	1 x 15	1.87	0.0008
350912	9 x 12	1 x 15	0.82	0.0120
350915	9 x 15	1 x 15	0.22	0.0043
351014	10 x 14	1 x 15	1.43	0.0081
351420	14 x 20	1 x 15	2.72	0.0240
351622	16 x 22	1 x 15	4.15	0.0320
352030	20 x 30	1 x 15	7.00	0.0490

NOTE: Tube thickness =  $\frac{\text{external } \varnothing - \text{internal } \varnothing}{2}$



Tubing clamps

Material: **autoclavable** acetal.  
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	0.0005
19504	for tubes of 11 to 19 mm (12 positions)	6	0.11	0.0007



HYGIENE, SAFETY AND GENERAL LABWARE





## «T» connectors

Material: polypropylene. **Autoclavable.**

code	fits tubing Ø mm	Ø mm* valley/crest	Ø mm interior mouth	shape	bag quantity	bag weight	bag volume
<b>19460</b>	6	4.5 / 5.4	2.8	T	20	0.01	0.0002
<b>19461</b>	8	6.9 / 7.6	4.4	T	20	0.23	0.0002
<b>19462</b>	10	8.7 / 9.5	6.3	T	20	0.54	0.0010

\* 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
<b>191411</b>	6	4.8 / 5.6	2.7	+	20	0.20	0.00018
<b>19465</b>	6	4.7 / 5.7	2.7	Y	20	0.12	0.00018
<b>19467</b>	10	8.9 / 9.9	5.5	Y	20	0.03	0.00002
<b>19468</b>	12	10.5 / 11.6	7.3	Y	20	0.09	0.00003

\* See the scheme

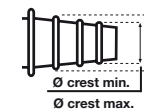


## «Straight» and 3 way connectors

Material: polypropylene. **Autoclavable.** Made of one piece.

code	fits tubing Ø mm	Ø mm* valley/crest	Ø mm interior mouth	bag quantity	bag weight	bag volume
<b>19510</b>	4-5-6	5.5 / 4.5 / 3	2.0	20	0.16	0.00002
<b>19512</b>	9-8-10	11 / 9 / 6.3	4.5	20	0.06	0.00030
<b>19513</b>	10-11-12	13 / 10.5 / 8.3	6.5	20	0.74	0.00100

\* 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
<b>19971</b>	for tubing of up to 9.5 mm Ø Polycarbonate	6 x 6	0.13	0.0013
<b>19972</b>	for thermometers from 3.2 mm to 11 mm Ø Polypropylene	12 x 3	0.17	0.0018

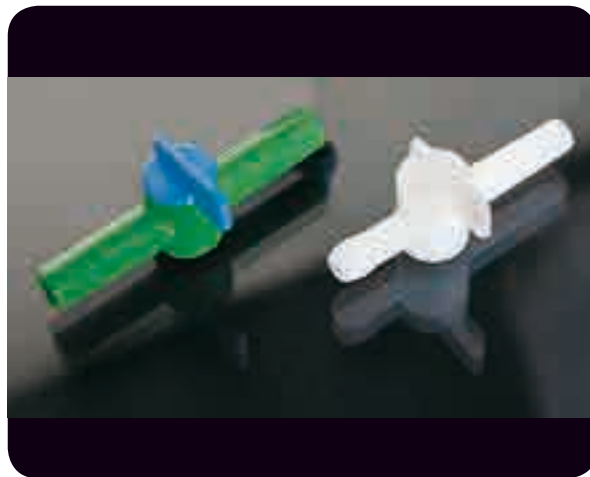
Minimum order quantity: **19971** - 6 units  
**19972** - 3 units



## 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
<b>19374</b>	8	4.9	10	0.05	0.0005
<b>19371</b>	10	7.0	10	0.06	0.0006

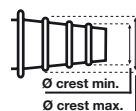


## Composed Disconnectors / connectors

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
<b>19434</b>	04-05-06	6.0 / 3.5	1.6	20	0.50	0.0010
<b>19435</b>	06-07-08	7.6 / 5.3	2.7	20	0.62	0.0010
<b>19436</b>	08-09-10	9.7 / 7.2	3.6	20	0.83	0.0003
<b>19535</b>	10-11-12	12.2 / 9.3	5.5	20	1.06	0.0010



## Non-return valve

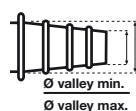
Material: polypropylene.

**Autoclavable.**

Maximum work pressure: 2 bar (2 kg/cm²).

Minimum work pressure: 0,07 bar, at 20 °C.

code	Ø ext valves	Ø mm valley max/min	bag quantity	bag weight	bag volume
<b>19418</b>	8-9-10	10.1 / 7.8	10	0.04	0.0002

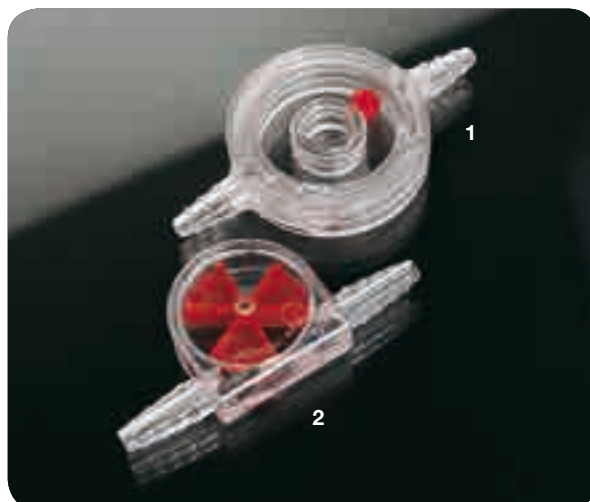


## Flow indicator (1)

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	dimensions mm	tubing mm	bag quantity	bag weight	bag volume
<b>19538</b>	102 x 14 x 57	6.5-10	5	0.07	0.0002



## 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
<b>19539</b>	90 x 15 x 40	6-11	5	0.08	0.0004



## Magnetic stirring bars

This section details our vast range of PTFE 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	0.04	0.00002



## Micro stirring bars

code	diameter mm	length mm	quantity	weight	volume
19851	3	3	1	0.04	0.0001
19852	2	5	1	0.04	0.0001
19749	2	7	1	0.04	0.0001
19855	3	8	1	0.04	0.0001
19856	3	10	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



HYGIENE, SAFETY AND GENERAL LABWARE





### Octahedral stirring bars with pivot ring

code	diameter mm	length mm	quantity	weight	volume
<b>19786</b>	8	15	1	0.04	0.0001
<b>19810</b>	8	22	1	0.06	0.0001
<b>19787</b>	8	25	1	0.06	0.0001
<b>19793</b>	8	28	1	0.06	0.0001
<b>19788</b>	8	38	1	0.06	0.0001
<b>19797</b>	10	51	1	0.08	0.0001
<b>19811</b>	13	75	1	0.08	0.0001



### Colored octahedral stirring bars

code	colour	diameter mm	length mm	quantity	weight	volume
<b>19787.4</b>	blue	8	25	1	0.06	0.0001
<b>19788.4</b>	blue	8	38	1	0.06	0.0001
<b>19788.10</b>	red	8	38	1	0.06	0.0001
<b>19811.4</b>	blue	13	75	1	0.08	0.0001



### Ovoid stirring bars

code	dimensions mm	quantity	weight	volume
<b>19806</b>	50 x 20	1	0.004	0.0002

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 lenght in mm): 8x13, 8x15, 10x25, 10x38, 10x51 and 10x64.  
**Code 19400.1:** (diameter x lenght 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	0.24	0.0003



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 an 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	0.08	0.0003
2	900400	digital timer with 1 memory	52 x 67 x 12	1	0.06	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. **Steriles by radiation** (sterile models).

code	capacity ml	sterile, individual wrap	no sterile, individual wrap	Ø internal mouth mm	Ø body mm	unitary weight g	height with lid mm	alimentary use	case quantity	case weight	case volume	pallet quantity
202811	30	—	—	25	32	4.2	53		100	1.00	0.011	14.700
202810	60	—	—	38	52	8.2	48		200	3.90	0.046	8.000
202808	90	—	—	51	60	8	51	✓	150	3.90	0.046	4.800
202809	125	—	—	51	60	12	62	✓	200	6.00	0.082	4.000
202801	170	—	—	51	60	14	80		160	6.46	0.082	3.200
202802	250	—	—	54	67	20	100	✓	125	4.85	0.080	2.500
202802.1	250	yes	—	54	67	20	100		125	4.94	0.084	2.500
202802B	250	—	yes	54	67	20	100		125	5.50	0.078	2.500
202814	400	—	—	60	74	27.3	124		130	8.00	0.140	1.560
202814.1	400	yes	—	60	74	27.3	124		130	8.00	0.140	1.560
202803	500	—	—	67	80	35	131	✓	120	7.70	0.140	1.920
202823.1	500	yes	—	67	80	35	131		120	7.60	0.140	1.920
202821.1	500	—	yes	86	103	44.9	93		95	8.31	0.140	1.520
202821	500	—	—	86	103	44.9	93	✓	95	8.44	0.140	1.520



code	capacity ml	sterile, individual wrap	no sterile, individual wrap	Ø internal mouth mm	Ø body mm	unitary weight g	height with lid mm	alimentary use	case quantity	case weight	case volume	pallet quantity
<b>202821.O</b>	500	yes	—	86	103	44.9	93		95	9.20	0.140	1.520
<b>202823</b>	500	—	yes	67	80	35	131		120	8.60	0.130	1.920
<b>202813</b>	750	—	—	86	103	48	127	✓	75	4.56	0.152	900
<b>202813.1O</b>	750	yes	—	86	103	48	127		75	7.20	0.140	1.200
<b>202818</b>	1,000	—	—	86	103	56.7	157	✓	50	5.43	0.140	800
<b>202828G</b>	1,000	yes	—	86	103	56.7	157		50	5.66	0.140	800
<b>202828</b>	1,000	—	yes	86	103	56.7	157		50	5.66	0.140	800
<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
<b>202820</b>	2,000	—	—	86	103	83.1	283	✓	35	5.12	0.140	560
<b>202820.O</b>	2,000	yes	—	86	103	83.1	283		35	6.10	0.140	560
<b>202839*</b>	2,000	—	—	105	128	73	205	✓	32	5.14	0.140	512



## 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	5.95	0.034
<b>242802</b>	100	40	55	58	7.0	1,000	7.20	0.034
<b>242803</b>	230	55	70	78	15.5	700	10.82	0.042
<b>242804</b>	275	53	72	98	22.0	500	11.66	0.042
<b>242805</b>	500	70	90	108	35.2	200	8.50	0.045
<b>242806</b>	1,000	90	120	132	65.0	120	8.22	0.042
<b>242811*</b>	1,000	90	120	132	65.0	65	5.93	0.042

\* 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	mouth Ø x height	case quantity	case weight	case volume
<b>202248</b>	100	polypropylene	57.5 x 62	50 x 100	7.40	0.080
<b>202317</b>	150	polystyrene	70 x 70	30 x 100	8.32	0.080





## Tamper evident buckets, large capacity

Disposable containers made of polypropylene **autoclavable**. 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. Made with materials suitable for alimentary use.



code	capacity l	Ø ext. lid mm	Ø int. mouth mm	height whitout lid mm	*body weight g	case quantity	case weight	case volume
<b>222802</b>	3	200	184.00	138.00	105.00	80	9.00	0.140
<b>222803</b>	4.5	225	210.00	156.00	134.00	48	10.46	0.140
<b>222804</b>	5.6	225	211.00	194.00	152.00	45	10.79	0.140
<b>222805</b>	10.6	268	251.00	263.00	314.00	20	8.39	0.140

\* Weight with no lid.

## Jars with lid

Body and lid in white **autoclavable** polypropylene. Self sealing security lid. Made with materials suitable for alimentary use. Code **241014** 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 without lid mm	*weight g	case quantity	case weight	case volume
<b>241010</b>	250	84 x 79 x 61	13	150	3.04	0.042
<b>241011</b>	550	107 x 98 x 79	24	250	5.01	0.103
<b>241013</b>	1,000	107 x 94 x 144	36	150	7.31	0.082
<b>241014</b>	1,560	135 x 118 x 138	48	150	4.42	0.130

\* Weight with no lid.







## Buckets with spout

Natural low 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
<b>19905</b>	9	270 x 200 x 250	1	0.58	0.014
<b>19906</b>	12	300 x 220 x 280	1	0.70	0.018
<b>19907</b>	15	340 x 250 x 310	1	0.85	0.026

The specified data may vary when changing to new models.



## Industrial jugs

Made of thick rigid polyethylene. Natural colour.  
Recommended for industrial use.  
Made with materials suitable for alimentary use.

code	capacity l	mouth Ø mm	height mm	weight ut. g	case quantity	case weight	case volume
<b>470007</b>	5	190	240	400	5	1.86	0.030



## Round jugs with handle

Polypropylene. **Autoclavable to 121 °C.**  
Made with materials suitable for alimentary use. Moulded-in graduations

code	capacity l	graduation ml	Ø mm	height mm	case quantity	case weight	case volume
<b>470000</b>	0.5	25	80	120	60	4.40	0.066
<b>470001</b>	1	50	125	140	48	4.60	0.086
<b>470002</b>	2	50	155	180	36	6.40	0.110
<b>470003</b>	3	100	165	180	27	7.10	0.130
<b>470005</b>	5	250	185	230	12	5.00	0.106

Minimum order quantity: 1.





## Self sealing security jars

Excellently finished, body in **autoclavable** polypropylene.

Screw cap in high density polyethylene with strips. Security sealing with tag for easy opening.

Tamper evident system. External moulded ring. Made with materials suitable for alimentary use.

Smooth internal side. Each jar specifies on its bottom its capacity, and the material it is made of. Supplied uncapped.



code	volume ml	max. body Ø mm	base Ø mm	height Ø mm	lid external Ø mm	weight ut. without lid g	case quantity	case weight	case volume
<b>202911N</b>	100	55.8	50.0	59.1	56.0	15.0	150	3.40	0.042
<b>202912N</b>	250	71.8	65.0	83.4	72.0	23.3	115	4.80	0.082
<b>202913N</b>	350	94	87.7	68.0	96.0	27.0	80	3.64	0.082
<b>202914N</b>	500	94	87.7	105.3	96.0	36.0	110	6.27	0.140
<b>202915N</b>	1.000	111.6	110.8	123.8	111.8	62.0	60	7.13	0.140
<b>202916N</b>	1.250	111.6	110.8	153.0	111.8	73.0	45	5.32	0.140



## 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. Made with materials suitable for alimentary use.

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
<b>444608</b>	25	12.5	32 x 34 x 52	18	6	500	6.60	0.090	12.000
<b>444609</b>	50	10	38 x 38 x 70	23	15	400	7.50	0.074	9.600
<b>444610</b>	100	20	42 x 48 x 90	33	22	600	18.20	0.195	9.600
<b>444611</b>	250	50	57 x 60 x 110	33	32	300	13.80	0.195	4.800
<b>444612</b>	500	100	70 x 80 x 138	44	55	150	10.50	0.192	2.400
<b>444613</b>	1.000	100	80 x 103 x 176	58	97	80	11.16	0.173	1.280
<b>444614</b>	2.000	100	100 x 134 x 210	58	177	40	9.16	0.170	640



## 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. Made with materials suitable for alimentary use.



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
44430000	125	29.5	52	103.5	18	100	3.00	0.045	4.000
44440000	250	37	65	128	24	120	5.20	0.080	2.880
44450000	500	47.4	82	152	40	60	4.32	0.080	1.440
44460000	1,000	59.4	102	183.2	90	55	7.49	0.140	880
44470000	2,000	59.4	123.5	244.5	128	30	5.75	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.

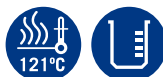


code	volume ml	graduation ml	internal mouth Ø mm	body Ø mm	height mm	body weight g	case quantity	case weight	case volume	pallet quantity
19408	50	10	24	40	75	13.20	100	1.65	0.019	9.600
19409	100	20	24	50	90	18.30	100	2.37	0.027	8.400
19410	250	25	34	60	125	35.80	50	2.16	0.037	3.600
19411	500	50	34	75	160	50.70	20	1.20	0.024	1.120
19412	1,000	100	45	95	200	92.20	20	1.95	0.046	960

## Bottles with standard, narrow neck

Bottles made of **autoclavable**, natural colour polypropylene. Hermetical closure.  
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	volume ml	neck DIN	mouth Ø mm	body Ø mm	height mm	body weight g	case quantity	case weight	case volume
<b>191597</b>	100	GL18	13	48	106	18.5	100	1.82	0.032
<b>191601</b>	500	GL25	19	75	180	49.3	150	9.00	0.180
<b>191603</b>	1,000	GL32	23	95	222	100.9	80	8.80	0.180



## Bottles with standard, wide neck

Wide neck bottles made of **autoclavable** polypropylene, or polyethylene (not autoclavable).  
Body and caps in natural colour. Hermetical closure.  
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	volume ml	neck DIN	mouth Ø mm	body Ø mm	height mm	body weight g	case quantity	case weight	case volume
<b>191610</b>	100	GL32	24	48	103	25.7	100	2.78	0.036
<b>191612</b>	250	GL45	38	60	140	39.2	5 x 50	2.06	0.180
<b>191614</b>	500	GL45	38	75	168	55.9	5 x 25	9.30	0.180
<b>191616</b>	1,000	GL63	55	95	206	109.3	68	9.30	0.180
<b>191618</b>	2,000	GL63	55	120	249	145.2	30	6.30	0.180



### Made of polypropylene, autoclavable:

code	volume ml	neck DIN	mouth Ø mm	body Ø mm	height mm	body weight g	case quantity	case weight	case volume
<b>191623</b>	100	GL32	24	48	103	26.6	100	2.98	0.038
<b>191625</b>	250	GL45	38	60	140	40.8	250	12.40	0.180
<b>191627</b>	500	GL45	38	75	168	56.5	125	8.50	0.180
<b>191629</b>	1,000	GL63	55	95	206	100.2	68	8.84	0.180
<b>191631</b>	2,000	GL63	55	120	249	175.5	30	6.30	0.180







### 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>19319</b>	125	18.5	46	107	6 x 100	15.48	0.151
<b>19323</b>	250	23	60	131	6 x 50	12.78	0.151
<b>19324</b>	500	23	74	157	6 x 25	9.00	0.195
<b>19325</b>	1,000	33	94	205	4 x 20	9.00	0.187
<b>19326</b>	2,000	33	112	266	2 x 20	8.40	0.151



### 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.

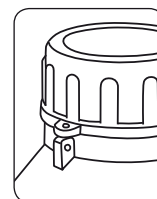
Heavy duty bottles, with sloping shoulders for easy pouring.

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 uncapped mm	case quantity	case weight	case volume
<b>193241</b>	500	23	75	157	6 x 25	9.00	0.195
<b>193251</b>	1,000	33	95	208	4 x 20	9.70	0.192

Minimum order quantity: 1 bag.



### 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	67	157	90	4.90	0.076
<b>44270000</b>	500	30	79	176	70	4.86	0.076
<b>44280000</b>	1,000	30	96	211	50	6.70	0.110



See page 251



## Tamper evident, 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. Tamper evident cap.

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	19	39.4	97.6	8	220	2.92	0.042	6,160
<b>292304</b>	250	19	58	128	18	80	2.10	0.044	3,200
<b>292305</b>	500	19	73	160	31	100	4.30	0.107	1,200
<b>292306</b>	1,000	19	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	3.10	0.045	5,000
<b>282304</b>	250	59	37	129	21.9	75	2.48	0.045	3,000
<b>282305</b>	500	66	37	200	35.0	100	4.98	0.100	1,600
<b>282306</b>	1,000	87	37	230	52.0	60	4.22	0.140	960



## Screw cap containers with seal and dropper

Made of white polypropylene.

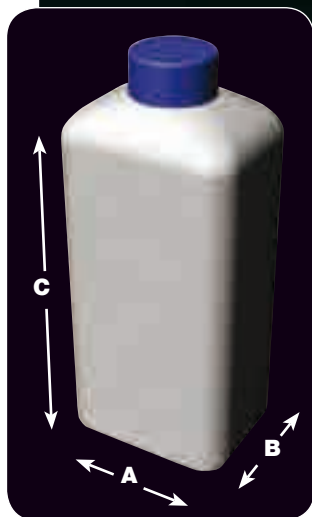
White watertight screw closing system with dropper-plug and blue security seal.

Hermetical closure. Mouth diameter: 10.2 mm.

Supplied uncapped.

code	volume ml	Ø base mm	height mm	body weight g	case quantity	case weight	case volume	pallet quantity
<b>53020</b>	20	24.6	65	3.50	2,000	12.70	0,112	32,000
<b>53125</b>	125	42.2	134.7	15.50	275	5.88	0,114	4,400
<b>53250</b>	250	50.8	167.3	21.50	200	5.95	0,100	3,200





## Rectangular bottles

Body and cap made of polyethylene.

Bottles with blue screw caps, including seal ring and internal joint.

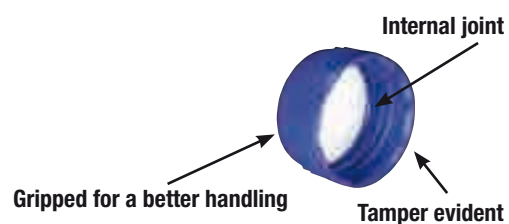
Tamper evident system.

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
<b>292819G</b>	250	30.3	58 x 58 x 115	21	210	5.90	0.096	3,360
<b>292820G</b>	500	30.3	77 x 77 x 130	35	153	9.70	0.140	2,448
<b>292821G</b>	1,000	30.3	96 x 75 x 184	62	85	6.41	0.140	1,360

## 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
<b>272301</b>	50	20	35	75	160	2.10	0.027
<b>272303</b>	125	20	48	100	135	2.52	0.045
<b>272304</b>	250	20	59	143	75	2.24	0.047





## 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	8.40	0.096	4,800
<b>292819</b>	250	37	58 x 58 x 103	21	210	6.00	0.096	3,360
<b>292820</b>	500	50.5	77 x 77 x 116	35	165	8.18	0.140	2,640
<b>292821</b>	1,000	50.5	96 x 75 x 172	62	90	7.00	0.140	1,440

## 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	5.53	0.11	2,460
<b>282311</b>	1,000	83 x 65 x 235	28	61	73	4.93	0.11	1,460



LABORATORY AND INDUSTRIAL  
PACKAGING

See sterile models on Chapter 1. **Microbiology**







### Drum 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.

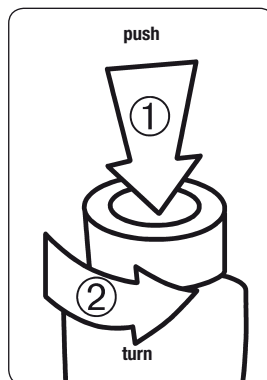
**Childproof, tamper evident**, ribbed screw cap with insert plug (see how to use a childproof cap in page 164).

Made with materials suitable for alimentary use.

Drums are supplied non screwed.

Dimensions: 133,8 x 192,5 x 391 mm

code	capacity l	total cap.ml	Ø int. mouth mm	body weight g	case quantity	case weight	case volume	pallet quantity
202505	5	5,260	34.5	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	0.56	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. Drums and caps are supplied non screwed.

code	capacity l	total capacity ml	minimum wall thickness mm	dimensions mm	quantity	weight	volume	pallet quantity
<b>206020</b>	20	20,900	1.20	242 x 298 x 365	1	1.00	0.028	48
<b>206025</b>	25	25,550	1.20	242 x 298 x 443	1	1.14	0.028	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	0.28	0.0088	256



## Stackable drum with tamper evident screw cap

Made of high density polyethylene.

Made with materials suitable for alimentary use.

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 ADR** compliant, meeting all the standards for the transport of hazardous, toxic and noxious products.

code	nominal capacity l	total capacity l	dimensions mm	Ø mouth mm	DIN	quantity	weight	volume	pallet quantity
<b>202605</b>	5	5.5	198 x 148 x 240	44	51	1	0.27	0.007	200
<b>202610</b>	10	11.6	224 x 193 x 305	44	51	1	0.47	0.017	100
<b>202620</b>	20	21.7	245 x 295 x 375	44	51	1	0.90	0.027	48
<b>202625</b>	25	26.9	245 x 295 x 435	44	51	1	1.10	0.031	48
<b>202630</b>	30	34.5	332 x 290 x 428	49	51	1	1.26	0.036	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	4.90	0.14	224
<b>202826</b>	10	100	215	340	380	6	4.50	0.14	96



## Drums with tap

Made of high density polyethylene. Except code **19375** is made of polypropylene.  
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).  
The codes **19660** and **19662** are made with materials suitable for alimentary use.

code	capacity l	Ø neck mm	Ø base mm	height mm	quantity	alimentary use	weight	volume
<b>19660</b>	5	52.5	165	345	1	✓	0.85	0.019
<b>19662</b>	10	52.5	210	425	1	✓	0.50	0.016
<b>19664*</b>	25	79.5	280	565	4		1.44	0.043
<b>19666*</b>	50	79.5	350	700	2		2.40	0.085

### Spare tap:

<b>19375</b>	–	–	–	–	1		0.005	0.0001
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\*Minimum order quantity: 1.



## 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.  
Made with materials suitable for alimentary use.

### 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	0.43	0.009	200
<b>191642</b>	10	120	210	395	1	0.90	0.014	90

### Narrow neck bottles (2)

code	capacity l	Ø neck mm	Ø body mm	height mm	quantity	weight	volume	pallet quantity
<b>191644</b>	5	43	163	330	1	0.45	0.012	200
<b>191646</b>	10	53	210	420	1	0.85	0.015	90







## Wide mouth storage drums with tap and plug

Body and cap made of polyethylene.

Screw cap with non hermetical plug.

Using Teflon at thread tap is recommended to ensure a complete sealing.

They embody a tap, and two black folding handles at the top.

Not designed to transport liquids.

External mouth diameter: 150 mm.

code	capacity l	Ø base mm	height mm	quantity	weight kg	volume
<b>209030</b>	30	355	457	1	1.51	0.059
<b>209050</b>	50	355	675	1	2.35	0.084



## Large deep trays

Made of natural high density polyethylene.

Stackable. Include ergonomically designed handles.

code	dimensions mm	height mm	tray volume l	quantity	weight kg	volume
<b>19603</b>	550 x 430	310	50	1	1.76	0.069
<b>19604</b>	630 x 440	340	65	1	3.00	0.090
<b>19605</b>	720 x 470	360	90	1	4.50	0.120



## Funnels

Material: polypropylene.

Autoclavable.

code	stem internal Ø mm	stem external Ø mm	bouche mm	quantity	weight	volume
<b>194172</b>	9.1	11.7	100	1	0.03	0.0005
<b>194175</b>	13.9	18.2	180	1	0.09	0.0013
<b>194176</b>	18.5	21.8	220	1	0.17	0.0028
<b>194177</b>	21.7	26.4	260	1	0.29	0.0081
<b>194178</b>	24.7	29.7	300	1	0.37	0.0110





## Industrial drums

These drums are produced in high density 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 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 ( $-20^{\circ}\text{C}$ ) 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.

All references have two handles for easy carrying except code **208128**.

Made with materials suitable for alimentary use.

code	capacity l	body Ø mm	mouth Ø mm	height mm	alimentary use	quantity	weight kg	volume	pallet quantity
<b>CYLINDRICAL DRUMS</b>									
<b>208030</b>	30	320	252	502	✓	1	2.50	0.08	48
<b>208060</b>	60	405	327	610	✓	1	3.02	0.15	27
<b>208128</b>	120	480	400	800	✓	1	5.48	0.30	18
<b>RECTANGULAR DRUMS</b>									
<b>208031</b> 	30	285	285	52	✓	1	1.89	0.33	100
<b>208061</b> 	60	360	360	62	✓	1	2.99	0.78	48





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.

2

D

E



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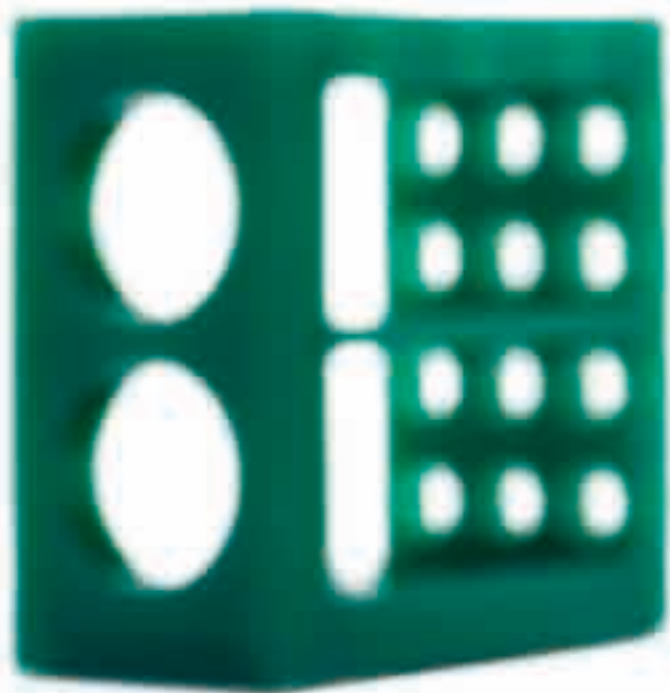
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