

## UN3373 Packaging Guide for Air and Road Transport

### Are You Transporting Biological Samples by Air or Road?

Follow these Guidelines to Ensure Your Compliance and Find the Products You Need

Air	
↓	
Is Your Primary Container Certified 95kPa at both -40C and +55C? <sup>1,2</sup>	
Yes	No
↓	↓
You need Leak-Proof Secondary Packaging with Absorbent <sup>3</sup> using either...	You need a Secondary Pouch Certified 95kPa at both -40C and +55C with Absorbent <sup>3</sup> (see page 107)
An all-in-one SpeciSafe <sup>®</sup> Pack (see page 103)	A Bag (see page 106) + Absorbent <sup>3</sup> (see page 105)
↓	↓
↓	↓
Rigid Outer Packaging Required <sup>4</sup> (see page 108)	

Road	
↓	
Is Your Primary Container Certified 95kPa at Ambient Temperature?	
Yes	No
↓	↓
You need Leak-Proof Secondary Packaging with Absorbent <sup>3</sup> using either...	You need a Secondary Pouch Certified 95kPa at Ambient Temperature with Absorbent <sup>3</sup> (see page 107)
An all-in-one SpeciSafe <sup>®</sup> Pack (see page 103)	A Bag (see page 106) + Absorbent <sup>3</sup> (see page 105)
↓	↓
↓	↓
Flexible Outer (see page 109)	Rigid Outer Packaging Required <sup>4</sup> (see page 108)

Note 1. The 95kPa pressure differential test is required for either the primary or secondary container. If the primary container does not have this certification, or you are unsure, you should use a 95kPa certified secondary container.

Note 2. The required pressure differential test is different for air and road transport. For road transport the test is conducted at ambient temperature. For Air transport it must also be conducted at both -40C and +55C.

Note 3. Absorbent material must be capable of absorbing the entire contents of the primary containers.

Note 4. For air transport, you must use a rigid outer box.

Note 5. For road transport the rigid element of the packaging can be either the secondary or the outer packaging.

Important - Always check with your transport provider to ensure they do not have any additional special conditions for transport of Biological Substances.



## Sample Collection Solutions

### Fe-Col® Faecal Collection Papers

#### Hygienic and Convenient for the Patient, Quality Samples for the Laboratory

There are numerous assays now available that can diagnose clinical conditions from the biomarkers, analytes or pathogens found in faecal samples.

However, collecting a faecal sample is difficult and unpleasant and the various methods used can cause erroneous results and additional work for the laboratories.

#### New Fe-Col® Papers Solve the Problem

Fe-Col® is a unique, disposable stool collection paper, which is easily and securely placed on the toilet and can be flushed away entirely after use as it is completely degradable.

Available on its own with clear pictorial instructions for use, or in various kit formats for use by patients in clinics or at home, complete with return UN3733 compliant mailing packs.

#### Features:

- Made from wood-free paper
- Flushable & biodegradable
- No optical brightness additives (e.g. bleach)
- Simple instructions for use
- Flow-seal packaging
- Small and compact
- Recycled material

#### Perfect for:

- Clinical Trials
- Screening Programmes
- Faecal Elastase Testing
- Fat content tests
- Infectious disease tests etc.



#### Benefits

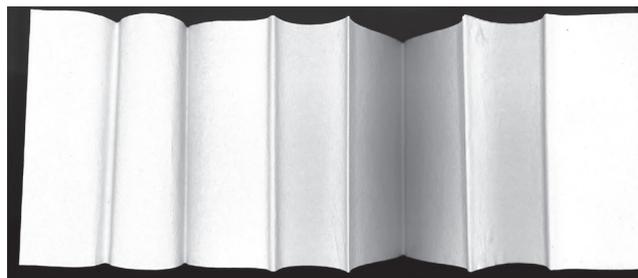
##### For the patient

- Easy to use
- Use the toilet as normal
- Hygienic
- No mess
- Nothing to throw away
- No toilet blockages

##### For the Testing Laboratory

- Encourages increased uptake on screening programmes
- Less contamination
- Less variability
- More accurate results
- Reduction of pre-analytical errors
- Fewer repeat tests
- Reduce overall laboratory costs

Fe-Col® is supplied in a discreet, flat flow-wrapped package. When unwrapped and unfolded it opens up to slip easily onto the toilet seat ready for use. It remains firmly in place whilst some of the sample is transferred into an appropriate vessel. A full range of sample collection containers and tubes are available from Alpha Laboratories, please see the website. Alternatively choose one of the Fe-Col kits with inclusive faecal storage container.



## FC2040 - Faecal Collection Kit Mini

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 2 x Polysynthetic gloves
- 2 x Cardboard applicators
- 1 x Instructions for use



## FC2052 - Faecal Collection Kit Basic

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 1 x Faecal storage container (CW3830) enclosed within
- 1 x SpeciSafe mailing pack (SH0600SS)
- 1 x UN labelled mailing envelope (SH1000)
- 1 x Instructions for use



## FC2030 - Fe-Col® Dispenser Box

Fe-Col® is also available in a handy dispenser box containing 50 faecal collection papers each enclosed in a flow-sealed pack with instructions. This is convenient for use in clinics, surgeries and dispensaries.



Fe-Col® Faecal Collection Papers		
Catalogue Number	Description	Pack Size
FC2010	Fe-Col Faeces Collection Paper with Instructions for Use (IFU)	1000
FC2030	Fe-Col Faeces Collection Paper with Instructions for Use in Dispenser Box. 5 boxes of 50	5 x 50
FC2040	Faeces Collection Kit Mini containing Fe-Col with IFU, gloves and cardboard applicators	100
FC2052	Faeces Collection Kit Basic contains Fe-Col with IFU, Sample container, SpeciSafe mailing pack and UN labelled mailing envelope	40



## PeeCanter Urine Sample Collection Device

The PeeCanter is a discreet and handy pop-up urine collection cup. It is supplied flat-packed, which reduces postal costs and storage space, and makes it ideal for inclusion into home testing kits where patients need to collect their own samples.

The PeeCanter is simple and quick to assemble, simply press with finger and thumb in the marked areas and the the 3D cup locks into position. The wide (50mm) aperture makes it easier to collect the sample reducing spillages and the square design of the cup provides a natural and accurate pouring spout for decanting into the final urine storage or transport container.

The design reduces the opportunity for crushing/cracking during the delivery and collection process, thus increasing the potential for return of usable sample.

Manufactured from card lined with a waterproof plastic sleeve, the maximum fill capacity is 200ml. The collection cup measures 50 x 50 x 120mm (w x d x h) in its fully opened 3D shape.



Ideal for Point of Care Diagnostic Kits, Clinical trials, Sample Collection Kits, or anywhere there is a need to collect a urine sample.

### PeeCanter Urine Sample Collection Device

Catalogue Number	Description	Pack Size
4U2P-100	PeeCanter Urine Sample Collection Device with Instructions for Use	100
4U2P-500	PeeCanter Urine Sample Collection Device with Instructions for Use	500
4U2P-1000	PeeCanter Urine Sample Collection Device with Instructions for Use	1000

## Swabs

A selection of plain and transport swabs for collection and safe transport of bacteriological, serological and cytological samples. Plain swabs are CE-marked for IVD and transport swabs as Class IIa in accordance with Medical Devices Directive 93/42/EEC.



SW1020



SW1030



SW1070



SW1040



SW1010



SW1050

### Swabs

Catalogue number	Description	Method of Sterilisation	Pack Size
SW1020	Plain Swab, Wooden Stick, Cotton Tip, Non-Sterile	-	10 x 100
SW1030	Plain Swab, Wooden Stick, Cotton Tip, Sterile	EO	100
SW1070	Plain Swab, PS Stick, Viscose Tip, Non-Sterile	-	90 x 100
SW1040	Plain Swab, PS Stick, Viscose Tip, Sterile	EO	10 x 100
SW1010	Transport Swab without medium, White Cap, PP Tube, PS Stick, Viscose Tip, Sterile	IR	500
SW1050	Transport Swab with Amies medium, Blue Cap, PP Tube, PS Stick, Viscose Tip, Sterile	IR	8 x 150

EO = Ethylene Oxide Sterilisation, IR = Irradiation, PS = Polystyrene, PP = Polypropylene

## Primary Containers for Sample Transport

Once collected, samples need to be stored and transported securely without the risk of contamination or leakage.

The key requirement for primary containers to transport samples is that they are leak-proof. Here we offer a range of primary containers which are tested and certified to be leak-proof.

However to meet the UN3373 P650 packaging instruction, either the primary or secondary container must have been tested specifically to withstand a 95kPa pressure differential test. For road transport this test should be conducted at ambient temperature, but for air transport, the test must also be conducted at -40C and +55C.

This means a leak-proof container, which has not been demonstrated to pass the 95ka pressure differential test, can only be used for sample transport when combined with a secondary container which has passed the appropriate test.

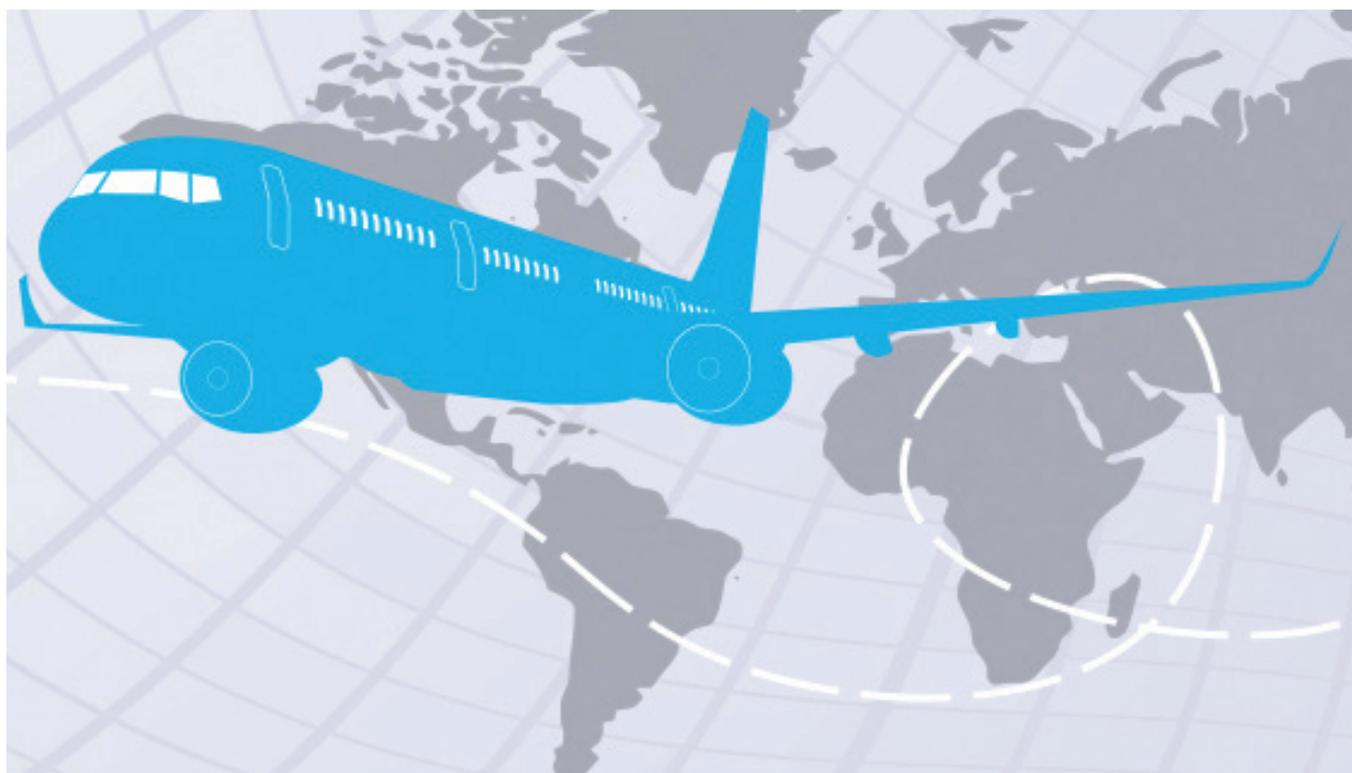
We have categorised the sample containers according to their certification, however tubes certified to the IATA standard may also be used for other forms of transport.

Please refer to the UN3373 Packaging Guide for Air & Road Transport on page 91 for further guidance.

## Primary Sample Containers Certified 95kPa Compliant for Air Transport

To be used with a leak proof secondary, absorbent and outer rigid box.

- ProtectR®
- Blood Collection Tubes



## IATA 95kPa Centrifuge Tubes

ProtectR® Tube is the only container closure system engineered to be CO<sub>2</sub> resistant and prevent costly damage to molecular and cellular solutions when shipping or storing samples on dry ice.



### Prevent Acidification of Your Samples

Made of durable, high quality materials and fitted with an air-tight cap, ProtectR Tubes form a protective barrier, impermeable to CO<sub>2</sub>, keeping the sample pH stable and preventing acidification.

### IATA 95kPa Certified for Air Shipment

ProtectR tubes are IATA 95kPa certified for packaging and air transport of biological samples and meet the UN1845 requirements for shipment on dry ice.

The 95kPa certification requires containers to withstand, without leakage, an internal pressure producing a pressure differential of not less than 95kPa between the temperatures of -40C to +55C.

Since air transportation is typically the most rigorous transport condition, containers that meet IATA regulations are also suitable for other transport methods.



### Specifications

- Volume: Both 15ml and 50ml Tubes available
- Temperature Range: -80C to 110C
- Centrifuge: to 12,500g
- Sterility: Both Sterile and Non-Sterile formats available
- Autoclave: 122C at 15PSI
- Regulatory: CE IVD marked and CFR 21 USFDA Compliant
- Lot Certification: ATP, RNase, DNase, DNA, Endotoxin, Pyrogen free. Also low in trace metals
- Transportation: IATA 95kPa certified
- IntegraPack: 10 packs of 10 tubes (supplied in 2 sleeves of 5 packs)
- Patented, extra large smudge-resistance writing panel
- Easy-to-read graduations & reverse scale

### ProtectR® 15ml and 50ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT5015	15ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5015S	15ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10
CT5050	50ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5050S	50ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10

## SampleTite™ Prime Containers

### A Secure Solution for Sample Collection, Storage and Transportation

SampleTite™ Prime Specimen Containers have been designed for applications where strict adherence to regulatory requirements for the safe collection, storage and transportation of biological samples is essential.

The containers are manufactured from durable polypropylene and the various coloured caps are made from high density polyethylene (HDPE).

SampleTite™ Prime Specimen Containers are food contact approved and testing has been carried out for suitability with aggressive chemicals such as formaldehyde.

They are widely used in a range of applications including pathology, histology, water sampling and metals analysis.

- High clarity
- Easy opening and closure



### Leak-proof, 95kPa Tested to IATA Standard for Compliant Sample Transport

A process validation has been carried out on these disposable plastic specimen containers to ensure the unique “double seal” closure technology remains leak-proof under a pressure differential of no less than 95 kPa (0.95bar, 14 psi) at both -40C and +55C, making them suitable as a primary container for air transport of UN3373 biological samples. Flexible Packaging Systems.

SampleTite™ Prime Containers		
Catalogue Number	Description	Pack Size
STC0120SJ	SampleTite Prime Specimen Container 120ml Clear Non-Sterile	500
STC0120CO	SampleTite Prime Specimen Cap 120ml Orange Non-Sterile	500
STC0120CP	SampleTite Prime Specimen Cap 120ml Purple Non-Sterile	500
STC0120CR	SampleTite Prime Specimen Cap 120ml Red Non-Sterile	500
STC0120CW	SampleTite Prime Specimen Cap 120ml White Non-Sterile	500
STC0120CY	SampleTite Prime Specimen Cap 120ml Yellow Non-Sterile	500



## Primary Sample Containers Certified 95kPa Compliant for Road Transport

To be used with a leak-proof secondary, absorbent and either flexible or rigid outer packaging (please refer to the UN3373 Packaging Guide for Air & Road Transport on page 91).

- 30ml polypropylene Universal Containers
- 30ml polystyrene Universal Containers
- EveryDay Containers



## ADR 95kPa Certified - 30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polypropylene or polystyrene. All have a conical base and are self-standing. For stool collection there are options with a sampling scoop/spoon attached to the cap, or for urine collection there is an option with Boric Acid. Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.



### Universal Containers - Polypropylene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3840	30ml Universal	PP/PP	Printed	Aseptic	400	No
CW3850	30ml Universal with Boric Acid	PP/PP	Printed	Aseptic	400	No
IR1385	30ml Universal	PP/PP	No	Aseptic	400	50

### Universal Containers - Polystyrene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
IR1390	30ml Universal	PS/PP	Printed	Aseptic	400	50
CW3820	30ml Universal with Boric Acid	PS/PP	Printed	Aseptic	400	No

\*PS = Polystyrene, PP = Polypropylene



CW3840



CW3850



IR1385



IR1390



CW3820

## EveryDay Containers

95kPa tested 20ml and 60ml sample containers for the safe and efficient collection, storage and transport of a wide range of samples. The range includes a variety of HDPE colour caps and clear polypropylene jars available to order separately.

- Easy sample identification with a range of colourful caps
- 95kPa leak-proof tested, making them suitable for road transport
- Made from durable materials with high chemical resistance
- Easy-Grip cap design for easier closing and opening of containers
- Suitable for everyday use in any laboratory



EveryDay Containers		
Catalogue Number	Description	Pack Size
SC5520SJ	Specimen Container Jar 20ml Clear	500
SC5520CO	Specimen Container Cap 20ml Orange	500
SC5520CP	Specimen Container Cap 20ml Purple	500
SC5520CY	Specimen Container Cap 20ml Yellow	500
SC5520CR	Specimen Container Cap 20ml Red	500
SC5520CW	Specimen Container Cap 20ml White	500
SC5560SJ	Specimen Container Jar 60ml Clear	500
SC5560CO	Specimen Container Cap 60ml Orange	500
SC5560CP	Specimen Container Cap 60ml Purple	500
SC5560CY	Specimen Container Cap 60ml Yellow	500
SC5560CR	Specimen Container Cap 60ml Red	500
SC5560CW	Specimen Container Cap 60ml White	500

## Transport Tubes

Manufactured from virgin polypropylene, these tubes are free-standing with an internal conical base and in-mould graduations in 5ml increments. The screw cap is supplied with the tube and is manufactured from polyethylene.

They are 95kPa tested for the storage and transport of urine, sputum and most liquids of particulate samples.

The tubes are lot by lot certified free of DNA, DNase, RNase and Endotoxins.

They are autoclavable at 121C and can be used for freezing samples.



Transport Tubes		
Catalogue Number	Description	Pack Size
TT1500	Transport Tube 50ml, Yellow Screw Cap, Non-Sterile, Graduated	100 x 5
TT1500S	Transport Tube 50ml, Green Screw Cap, Sterile, Graduated	25 x 20

# Sample Collection & UN3373 Packaging

## Primary Sample Containers - Leak-Proof Tested

Leak-proof tested in accordance with BS EN 14254 Annexe D except CW3880 and CW3890 which are tested to BS5213:1975 (1989) Appendix A.

Note: Require an appropriately certified secondary container dependant on mode of transport, plus absorbent and outer packaging (please refer to the UN3373 Packaging Guide for Air & Road Transport on page 91).

- Bijou Containers
- 30ml polypropylene Universal Containers
- 60ml polystyrene Universal Containers
- Aseptic Containers

### Bijou Containers

Bijou containers offer a wide variety of uses across research, pharmaceutical and clinical laboratories.

For preservation of urine samples a bijou containing Boric Acid is available.

- Ideal for small volume samples
- Manufactured under clean room conditions
- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Leak-proof tested in accordance with BS EN 14254 Annex D



#### Bijou Containers

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Packs
RC2122	7ml Bijou Screw Cap Container	PS/PE	Plain	Aseptic	700	No
RC2124	7ml Bijou Screw Cap Container w/ Boric Acid	PS/PE	Plain	Aseptic	700	No
RC2120	7ml Bijou Screw Cap Container	PS/PP	No	Aseptic	700	No

\*PS = Polystyrene, PP = Polypropylene, PE = Polyethylene

### 30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polystyrene. All have a conical base and are self-standing.

For stool collection there are options with a sampling scoop/spoon attached to the cap.

Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.

#### Universal Containers - Polystyrene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3880	30ml Universal	PS/PP	No	Aseptic	400	No
CW3890	30ml Universal	PS/PP	Plain	Aseptic	400	No
CW3810	30ml Universal with Spoon	PS/PP	Printed	Aseptic	400	No
RC2145	30ml Universal with Spoon	PS/PP	No	Aseptic	400	No

## 60ml Containers

- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Unique leak-tight cap ensures exceptional leak-proof seal
- Leak-proof tested in accordance with BS EN 14254 Annex D



### 60ml Containers

Catalogue Number	Description	Pack Size
IR1382	60ml Container PS/PE No Label Plastic Cap	300
IR1381	60ml Container PS/PE Printed Label Plastic Cap	300
IR1380	60ml Container Plain Label Plastic Cap	300

## Aseptic Container PS/Metal Cap

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene
- All materials are non-cytotoxic



### Aseptic Container PS/Metal Cap

Catalogue Number	Description	Pack Size
IR1400	150ml Container No Label, Metal Flow Seal Cap	120
IR1405	150ml Container Plain Label, Metal Flow Seal Cap	120
IR1410	250ml Container No Label, Metal Flow Seal Cap	50
IR1415	250ml Container Plain Label, Metal Flow Seal Cap	50
IR1420	250ml Container Printed Label, Metal Flow Seal Cap	50

## Other Primary Sample Containers

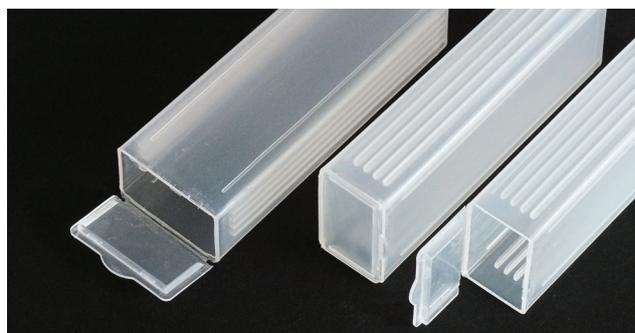
### Slide Mailers

These polypropylene slide mailers offer a convenient solution for long-term storage or mailing of up to 5 slides.

These end opening mailers have an integral snap seal to keep out dust and moisture and protect slides from breakage. Internal ridges keep slides separated.

The mailers can also be used for storage of slides and can be used in staining procedures as an inexpensive substitute for a staining chamber or coplin jar.

Supplied non-sterile.



### Slide Mailers

Catalogue number	Description	Pack Size
SM0505	Polypropylene Mailing Container for 5 76x26mm Microscope Slides	100

## Secondary Packaging Solutions for Air or Road Transport

Alpha Laboratories provides a range of sample packaging materials that help make your regulatory compliance convenient, consistent and cost-effective, including the innovative SpecSafe® all in one secondary packaging system. SpecSafe packs are available in a range of designs to fit perfectly around commonly used 95 kPa sample vessels.

### Using SpecSafe® for Air Transport

SpecSafe packs must be used with primary containers which are certified to have passed a 95kPa pressure differential test to IATA standards. The primary container must maintain a 95kPa pressure differential at both -40C and +55C.

For air transport, the outer packaging must be rigid so SpecSafe should be teamed with an outer rigid box.



### Using SpecSafe® for Road Transport

SpecSafe packs must be used with primary containers which are certified to have passed a 95kPa pressure differential test at ambient temperature. Since they are rigid, the SpecSafe packs can be placed directly in a flexible envelope or bag, ready for transport. What's more, the dimensions of most SpecSafe packs minimises postage costs. Depending on the sample vial size they can be mailed at large letter or small packet rate.



## Specisafe® Complete Secondary Mailing Packs for 95kPa Vials

**SpeciSafe® Provides a Safe, Convenient and Economical UN3373 Compliant Secondary Sample Packaging Solution**

SpeciSafe replaces secondary packaging for mailing Category B samples contained in 95kPa vials. It combines the absorbent material, vial separation and rigid container within a single pre-moulded mailing pack

You then only need to add a UN3373 labelled padded envelope or bag as your outer packaging when transporting by road, or a rigid box for air transport, saving you time and money.

SpeciSafe packs are available in a range of designs to fit perfectly around commonly used 95 kPa sample vessels.

### Benefits of Specisafe Packs

- Shock resistant primary container protection
- Built-in ultra-absorbent Gel Block – absolutely no leaks!
- Clear plastic enables sample details to be visible without unpacking
- Visible spillage indication prior to opening protects users
- User friendly, quick and intuitive use
- The pre-moulded packs keep multiple primary containers separated from each other
- Compliant flat-pack design minimises postage costs

### Ultra-Absorbent Lining Eliminates Leakage

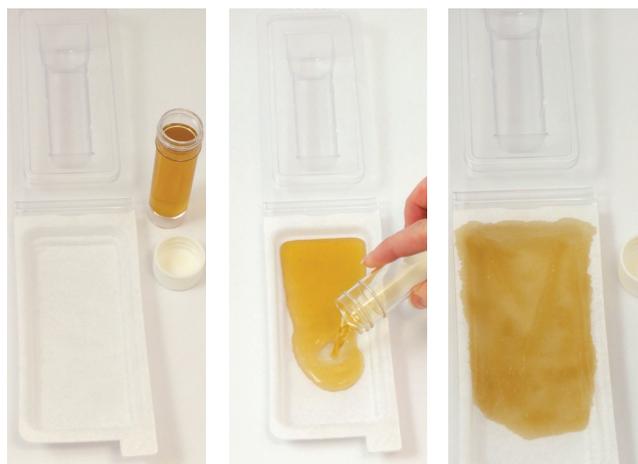
The unique feature of Specisafe packaging products is an internally bonded ultra-absorbent lining which soaks up any leakage in seconds.

The material is so absorbent that 1m<sup>2</sup> can soak up as much as 20 litres of liquid.

Once the lining has absorbed its maximum amount of liquid, it becomes a watertight barrier and effectively seals the Specisafe pack preventing any leakage from the secondary container.



*When used with 95kPa primary containers, Specisafe meets all requirements of UN3373 for secondary packaging.*



## Specisafe® for Micro Blood Tubes or Serum Vials

Specisafe secondary mailing packs suitable for transporting micro blood tubes, serum type tubes or 0.5, 1.5 or 2.0ml microtubes. Package just a single tube or up to 10 with speed and ease.



SH0100SS

Specisafe® for Micro Blood Tubes or Serum Vials		
Catalogue Number	Description	Pack Size
SH0100SS	Specisafe Packs to hold 10 Serum Vials	170
SH0110SS	Specisafe Packs to hold 10 Serum Vials	50
SH0301SS	Specisafe Packs to hold 6 Serum Vials / Micro Blood Tubes	300
SH0311SS	Specisafe Packs to hold 6 Serum Vials/ Micro Blood Tubes	100
SH1300SS	Specisafe Packs to hold 3 Serum Vials	500
SH1700SS	Specisafe Packs for 1 Serum Vial / Micro Blood Tube	450
SH1800SS	Specisafe Packs for 2 Serum Vials / Micro Blood Tubes	500
SH0800SS	Specisafe Packs for 4 Glass Serum Vials	210



SH0301SS

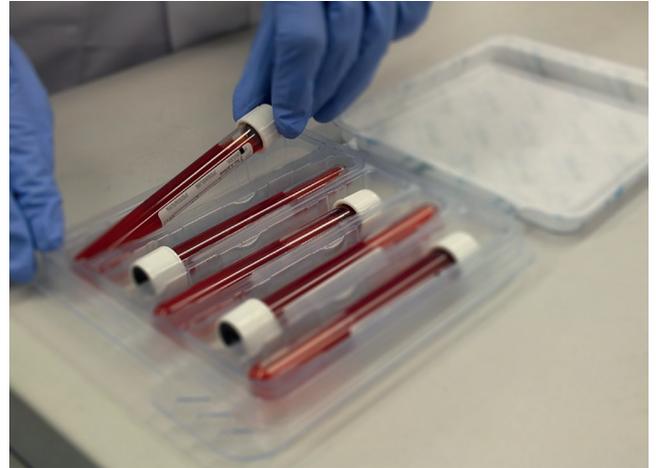


SH1300SS

# Sample Collection & UN3373 Packaging

## SpeciSafe<sup>®</sup> for Blood Collection Tubes

Ensure safe and compliant transport of various types of evacuating blood collection tubes with this range of SpeciSafe secondary mailing packs. These packs also accommodate microtubes, serum vials and cryovials.



SpeciSafe <sup>®</sup> for Blood Collection Tubes			
Catalogue Number	Description	Alternative Use	Pack Size
SH0200SS	SpeciSafe Packs to hold 3 Blood Type Tubes up to 6.5ml*	6x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials or 6x cryovials (<2ml) or 3x cryovials (2-5ml)	210
SH0210SS	SpeciSafe Packs to hold 3 Blood Type Tubes up to 6.5ml*	6x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials or 6x cryovials (<2ml) or 3x cryovials (2-5ml)	50
SH0400SS	SpeciSafe Packs to hold 2 Blood Type Tubes up to 10.5ml*	2 smaller blood tubes PLUS a 0.5, 1.5 or 2.0ml screw cap microtube/serum vial or cryovial	300
SH0410SS	SpeciSafe Packs to hold 2 Blood Type Tubes up to 10.5ml*	2 smaller blood tubes PLUS a 0.5, 1.5 or 2.0ml screw cap microtube/serum vial or cryovial	100
SH0500SS	SpeciSafe Packs to hold a Single Blood Type Tube up to 10.5ml*	1x cryovial (< 5ml) or 1x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials	500
SH0510SS	SpeciSafe Packs to hold a Single Blood Type Tube up to 10.5ml*	1x cryovial (< 5ml) or 1x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials	100
SH0701SS	SpeciSafe Packs to hold 5 Blood Type Tubes up to 10.5ml (Universal Fit)	5x Transport Tubes (5 or 10ml)	150

\*Please request a sample to check the fit of the blood tubes that you use

## SpeciSafe<sup>®</sup> for Universal Containers

These SpeciSafe secondary mailing packs are designed to fit standard 30ml Universal tubes commonly used as urine or faeces sample containers. There is a single or triple tube option available.



SpeciSafe <sup>®</sup> for Universal Containers		
Catalogue Number	Description	Pack Size
SH0600SS	SpeciSafe Packs to hold a Single Universal Container	300
SH0610SS	SpeciSafe Packs to hold a Single Universal Container	100
SH1400SS	SpeciSafe Packs to hold 3 Universal Containers	160



## SpeciSafe<sup>®</sup> for Short Swab Tubes or Bijou Containers

This SpeciSafe pack is suitable for transporting a single compact swab container and similar tubes – popular for sexual health screening and evidence kits. Also compatible with 7ml Bijou type containers and will accommodate two of these.



SpeciSafe <sup>®</sup> for Short Swab Tubes or Bijou Containers		
Catalogue Number	Description	Pack Size
SH0900SS	SpeciSafe Packs to hold 1 Swab Tube or 2 x Bijous	300

## SpeciSafe<sup>®</sup> for Large Volume Sample Containers

Large volume sample containers used to collect and transport urine, faeces or tissue specimens can be accommodated in the SH1500SS SpeciSafe. It can hold 3 x 40ml, 2 x 60ml or 1 x 90ml containers, or any two different volumes in combination.



SpeciSafe <sup>®</sup> for Large Volume Sample Containers		
Catalogue Number	Description	Pack Size
SH1500SS	SpeciSafe Packs to hold up to 3 Large Volume Sample Containers	170



## Absorbent Sheets

These super absorbent sheets can be used with all types of packaging to help meet UN3373 regulations. Available in 4 sizes specified by the volume that they can absorb, simply choose the one that will absorb at least the total volume of your sample. More than one sheet can be added to any packaging if required, to ensure that it would absorb all the sample in the event of catastrophic leakage.

A 4 or 6 bay absorbent pouch is also available, suitable for sending up to 4 or 6 blood type or similar tubes. This keeps the tubes separated from each other, without the need to wrap each one individually.



Absorbent Sheets		
Catalogue Number	Description	Pack Size
AB001	Absorbent Sheet 75 x 125mm - absorbs 50ml	1000
AB001-100	Absorbent Sheet 75 x 125mm - absorbs 50ml	100
AB001-500	Absorbent Sheet 75 x 125mm - absorbs 50ml	500
AB002	Absorbent Sheet 125 x 150mm - absorbs 100ml	500
AB002-100	Absorbent Sheet 125 x 150mm - absorbs 100ml	100
AB003	Absorbent Sheet 150 x 250mm - absorbs 200ml	500
AB003-100	Absorbent Sheet 150 x 250mm - absorbs 200ml	100
AB004	Absorbent Sheet 250 x 300mm - absorbs 400ml	250
AB004-100	Absorbent Sheet 250 x 300mm - absorbs 400ml	100
AB010	Absorbent 4 Bay Pouch for up to 4 blood tubes	500
AB010-100	Absorbent 4 Bay Pouch for up to 4 blood tubes	100
AB013-100	Absorbent 6 Bay Pouch for up to 6 blood tubes	100

## Specimen Bags

These handy, grip seal specimen bags comprise the main compartment plus an integral document wallet to ensure your paperwork stays with your samples. For use with appropriately tested 95kPa primary containers. These can also be used to separate multiple primary sample containers from each other.

Supplied non-sterile.



### Specimen Bags

Catalogue number	Description	Pack Size
BS1422	Specimen Bag with Wallet, Plain 22x15x18cm	100
BS1422P	Specimen Bag with with Biohazard warning and Wallet, 23x15x18cm	100

## Other Secondary Packaging Solutions for Air Transport

### 95kPa IATA Pouches

Flexible Secondary Pouches are the ideal solution for transporting sample containers where the pressure resistance is either unknown or not certified to be 95kPa compliant. They are also useful for any sample container which does not fit into any of the moulded SpeciSafe® transport containers. These IATA compliant pouches can be used as the secondary packaging option when combined with a rigid outer box. In this way the pouches can be used to meet the UN3373 regulations P650 packaging instruction for transport of category B biological samples by air.

The IATA flexible secondary pouches have undergone much more rigorous testing at both -40C and +55C to ensure they are robust enough to withstand the changes in pressure and temperature they may encounter during air transport. They include a document wallet and have a lot number.



- 95kPa pouches carry full instructions
- Pouches have a document wallet on the reverse side
- For security, the flexible secondary pouches include a tamper evident seal

### 95kPa IATA Pouches

Catalogue Number	Description	Pack Size
FS95-C4-100-IATA	Flexible Secondary IATA 95kPa Pouch C4	100
FS95-C5-100-IATA	Flexible Secondary IATA 95kPa Pouch C5	100

## Secondary Packaging Solutions for Road Transport

### 95kPa ADR Pouches

Flexible Secondary 95kPa Pouches are the ideal solution for transporting sample containers where the pressure resistance is either unknown or not certified to be 95kPa compliant. They are also useful for any sample container which does not fit into any of the moulded SpeciSafe® transport containers. These ADR pouches can be used as the secondary packaging option when combined with a rigid outer box. The rigid outer can be an individual one, or a hospital courier transport box designed to hold several samples.

In this way the pouches can be used to meet the UN3373 regulations P650 packaging instruction for transport of category B biological samples by road.



- 95kPa pouches carry full instructions
- Areas to write sender and recipient details
- Check boxes for temperature requirements
- Unique sequential barcoded number for easy package recognition (with the exception of FS95-C5-PLAIN)
- C5 and C4 pouches have a document wallet on the reverse side
- For security, the flexible secondary pouches include a tamper evident seal
- Pouches can be purchased on their own or with appropriately sized absorbent in various pack sizes



### 95kPa ADR Pouches

Catalogue Number	Description	Pack Size
FS95-C3	Flexible Secondary 95kPa Pouch C3	250
FS95-C3-100	Flexible Secondary 95kPa Pouch C3	100
FS95-C4	Flexible Secondary 95kPa Pouch C4	500
FS95-C4-100	Flexible Secondary 95kPa Pouch C4	100
FS95-C5	Flexible Secondary 95kPa Pouch C5	1000
FS95-C5-100	Flexible Secondary 95kPa Pouch C5	100
FS95-C5-100	Flexible Secondary 95kPa Pouch C5, without sequential barcoded number	1000

### 95kPa ADR Pouches with Absorbent

For added convenience these pouches come complete with the appropriately sized absorbent sheet.



### 95kPa ADR Pouches with Absorbent

Catalogue Number	Description	Pack Size
FS95-C3A-100	Flexible Secondary 95kPa C3 200ml Absorbent	100
FS95-C4A-100	Flexible Secondary 95kPa C4 100ml Absorbent	100
FS95-C4A-500	Flexible Secondary 95kPa C4 100ml Absorbent	500
FS95-C5A-100	Flexible Secondary 95kPa C5 50ml Absorbent	100
FS95-C5A-1000	Flexible Secondary 95kPa C5 50ml Absorbent	1000

## Outer Packaging Solutions for Air or Road Transport

### Labels and Seals

Labels can be purchased to add to your own packaging solutions which comply with the UN3373 regulations. Save time and effort with labels directly from a roll. Also available is the tamper evident security seal. This has a special adhesive to ensure it cannot be removed without being torn so it becomes immediately obvious if the package has been previously opened.

#### Labels and Seals

Catalogue Number	Description	Pack Size
LB001	Security Seal	1000
LB002	UN3373 Label Small 50mm x 50mm	1000
LB003	UN3373 Label Large 100mm x 100mm	1000



### Medical Collection Containers

The MedDXTAINER Medical Collection Container is a popular choice with medical couriers and hospital transport. Used for the collection of multiple samples from off-site clinics and laboratories, this ABS rigid plastic carrier can be stacked and locked, enabling three or four units to be carried together. Regulatory compliant markings are visible on each container.

The medical collection container is regulatory marked and should be used in conjunction with a secondary packaging. If primaries are not 95kPa we advise the use of the 95kPa pouches to ensure compliance.

A range of additional options are available including shoulder straps, trolley, security components and EPP insulated liners for refrigerated shipments. Please enquire for details.

### Rigid Outer Boxes



Use these boxes when you need to tailor the packaging to exactly suit your needs. All boxes are supplied flat packed to minimise storage requirements and have full instructions for assembly. They can be used together with SpeciSafe® as well as with 95kPa pouches for either air or road transport.

The temperature protected shipping boxes are ideal for keeping samples cool during overnight transport. Quick and easy to use simply add the 300g frozen gel pack to the bottom of the pouch, add your samples in their secondary packaging, then the frozen second 400g gel pack. Fold the insulated liner and seal with the adhesive strip. Close the box and it's ready for shipment.

#### Rigid Outer Boxes

Catalogue Number	Description	Pack Size
RO-LL1	Rigid Box Dimensions: 192 x 147 x 24mm	35
RO-200G	Rigid Box Dimensions: 194 x 125 x 43mm	35
RO-330G	Rigid Box Dimensions: 194 x 125 x 68mm	35
RO-500G	Rigid Box Dimensions: 194 x 125 x 102mm	30
RO-1K	Rigid Box Dimensions: 251 x 194 x 102mm	30
TP-0135-10	Temperature Protected Shipping Box 210 x 160 x 100mm	10
TP-0135-100	Temperature Protected Shipping Box 210 x 160 x 100mm	100



#### Medical Collection Containers

Catalogue Number	Description	Pack Size
MDXT-MINI3	MedDXTAINER MINI 3 Medical Collection Container Dimensions: 142 x 265 x 171mm	Each
MDXT3I	MedDXTAINER 3 Insulated Medical Collection Container Dimensions: 395 x 295 x 210mm	Each
MDXT-4	MedDXTAINER 4 Medical Collection Container Dimensions: 395 x 295 x 315mm	Each
MDXT4I	MedDXTAINER 4 Insulated Medical Collection Container Dimensions: 395 x 295 x 315mm	Each
MDXT-5	MedDXTAINER 5 Medical Collection Container Dimensions: 395 x 295 x 420mm	Each
MDXT5I	MedDXTAINER 5 Insulated Medical Collection Container Dimensions: 395 x 295 x 420mm	Each
MDXTI-DIV	Insulated Dividers for Medical Collection Container	2

## Outer Packaging Solutions for Road Transport

### Mailing Bags and Envelopes

When a 95kPa primary container is used with SpeciSafe® secondary packaging, the SpeciSafe meets the “rigid” requirements of the UN3373 regulations, hence only an outer flexible envelope is required to transport items by road. These flexible envelopes are made from lightweight polyethylene and used together with SpeciSafe can help to minimise postage costs, enabling many sample packages to be mailed at large letter rather than parcel rates.

#### Mailing Bags and Envelopes

Catalogue Number	Description	Pack Size
SH1000	UN3373 Labelled White Polyethylene C5 Size Envelopes	500
SH1010	UN3373 Labelled White Polyethylene C5 Size Envelopes	100
FO013-500	UN3373 Labelled White Polyethylene C4 Size Envelopes	500
FO013-100	UN3373 Labelled White Polyethylene C4 Size Envelopes	100



#### Off-the-Shelf or Customised for You

Combining SpeciSafe packaging with the primary sample containers and UN3373 labelled envelopes provides a convenient and complete solution. SpeciSafe and Envelopes can even be customised (except SH1200) with labels to include your required address and unique Royal Mail business reply reference. Ideal for clinical trials packs etc. Contact us to discuss your needs and obtain a quotation.

## Complete Kits for Sample Collection and Transport

### Complete Mailing Systems for Road Transport

These convenient sample transport complete systems make UN3373 compliance simple. They contain absorbent material, a 95kPa pressure tested secondary pouch, a rigid outer box and a security seal. They can accommodate all types of primary sample container. Use when your primary doesn't fit into any of the SpeciSafe® secondary sample transport clamshells, or when your primary is not certified 95kPa pressure resistant.

Available in a range of sizes, with an option for an insulated pack, simply pick the one which matches your requirements best. These sample collection kits are supplied flat packed to minimise storage requirements.



#### Complete Mailing Systems

Catalogue Number	Description	Box Size	Pouch Size	Absorbent Size	Additional Items	Pack Size
RF95-LL1	Rigid Flexible 95 LL1	192 x 147 x 24mm	C5 150 x 205mm	50ml 75 x 125mm	Security Seal	25
RF95-200G	Rigid Flexible 95 200G	194 x 125 x 43mm	C5 150 x 205mm	100ml 125 x 150mm	Security Seal	25
RF95-330G	Rigid Flexible 95 330G	194 x 125 x 68mm	C5 150 x 205mm	100ml 125 x 150mm	Security Seal	25
RF95-500G	Rigid Flexible 95 500G	194 x 125 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal	25
RF95-1K	Rigid Flexible 95 1K	251 x 194 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal	25

#### Complete Mailing Systems for Air Transport

Catalogue Number	Description	Box Size	Pouch Size	Absorbent Size	Additional Items	Pack Size
RF95-200G-IATA25	Rigid Flexible 95 200G	194 x 125 x 43mm	C5 178 x 286mm	100ml 125 x 150mm	Security Seal	25
RF95-330G-IATA25	Rigid Flexible 95 330G	194 x 125 x 68mm	C5 178 x 286mm	100ml 125 x 150mm	Security Seal	25
RF95-500G-IATA25	Rigid Flexible 95 500G	194 x 125 x 102mm	C4 264 x 368mm	200ml 150 x 250mm	Security Seal	25
RF95-1K-IATA25	Rigid Flexible 95 1K	251 x 194 x 102mm	C4 264 x 368mm	200ml 150 x 250mm	Security Seal	25

## Complete Kits for Sample Collection and Transport

### Tailor-Made Sample Collection & Transport Kits.

Do you collect samples from patients at home for return to a central location? Patients often find it difficult to understand the complex instructions required to ensure Dangerous Goods compliance for return of their samples. With several layers of packaging and sometimes multiple tubes and lancets, diagnostic or health screening kits can present a daunting prospect.

Samples which are incorrectly packaged may be received in a condition where they are unsuitable for testing. This can lead to samples needing to be re-taken which can be costly both financially and in terms of time.

Alpha Laboratories' bespoke sample collection and transport kits utilising the unique SpeciSafe® packaging system can make this easier. Kits can be tailor made to your exact specification containing everything required for collection of the specimen, plus a simple intuitive solution for sample return. All this can be presented in a small, smart bespoke package, enhancing your company image, and minimising transportation costs.



### Clinical Trials Kits

Clinical trials programmes usually require the movement of biological samples from the patient or clinic to the testing laboratory, ensuring they are collected and received at the laboratory in the best possible condition. Whether blood, urine, faeces or tissue they need to be transported in accordance to strict regulations.

We help you to consider every aspect of the process: from the sample collection experience; regulatory compliance (eg UN3373, PI650); carrier handling processes; through to sample reception.

Working with you we will design and manufacture a tailored clinical trials kit solution that will help you achieve better quality samples and higher sample return rates.

We design, manufacture and assemble kits. We also manufacture many of the different components in Clinical Trial testing kits such as SpeciSafe® packs, absorbents, 95kPa pouches etc. , which enables us to offer highly competitive pricing, a rapid response and faster bespoke solutions where required.

Contact us to discuss your Clinical Trials Kit Requirements.



### Health Screening Kits

Alpha Laboratories can provide a complete compliant medical and diagnostic sample collection and transport packaging range and support service.

Providing components, complete collection kits and fulfilment services, our solutions meet UN3373 PI650 regulations, control cost and help to increase sample return rates.

Contact us to discuss your Health Screening Kit Requirements.



## Drug and Alcohol Abuse Kits

Working closely with global and independent drug and alcohol abuse testing organisations we can provide support by challenging some of the more traditional sample collection methodologies and processes.

Our solutions are designed to help you achieve the best quality samples and higher sample return rates: thus delivering a better service to your customers.

We can provide complete design, manufacturing and assembly of testing kits. We can also source many of the different components in Drug and Alcohol Abuse Screening kits, at highly competitive pricing, providing a rapid response and faster bespoke solutions where required.

We will work with you to create a tailored solution that best suits your needs.

Contact us to discuss your Drug and Alcohol Abuse Kit Requirements.



## Sexual Health Kits

Working closely with the NCSP (National Chlamydia Screening Programme), our partners are continually developing the design of our sexual health kits to improve the end user experience. With the breadth of testing increasing across HIV programmes and the growing home test market our expertise in regulatory compliant medical sample collection kits is particularly relevant.

Our support enables you to free up more of your organisation's valuable resources and reduce costs.

Our smart solutions are designed with a focus on helping you achieve better quality samples and higher sample return rates: thus delivering better patient healthcare.

Alongside the design, manufacture and assembly of kits, the manufacture of many of the different components in Sexual Health Screening kits, enables us to offer highly competitive pricing, a rapid response and faster bespoke solutions where required.

Contact us to discuss your Sexual Health Kit Requirements.



## Disease Control Kits

A Various Government agencies are continuously involved in disease control and eradication activities. We can plan and develop solutions ready for each stage of the disease control process, allowing us to react quickly in the required volumes for the specific challenge.

Step 1 - Contingency: Availability of the best solution developed and in stock, immediately ready for the crucial early stages of outbreak: enabling very quick response times and planned, controlled costs.

Step 2 - Outbreak: Ready with smart solutions designed to maintain the integrity of the vital initial samples during extraction, movement and reception; thus helping to ensure early detection and identification.

Step 3 - Containment: Solutions designed to address the specific challenges related to collecting and extracting samples in situations where containment is necessary.

Step 4 - Eradication and monitoring: Providing solutions to support ongoing monitoring in order to achieve the ultimate goal of eradication.

Contact us to discuss your Disease Control Kit Requirements.



## Proficiency Testing Kits

Our partner already supplies a number of world-class proficiency testing organisations with high quality solutions to ensure that test samples consistently arrive at the laboratories intact and in premium condition. The quality of our packaging is reflective of the crucial services being tested.

Trusting us with this part of the process enables you to free up more of your organisation's valuable resources and reduce costs.

Our solutions are designed and manufactured with a focus on helping to achieve the best quality samples and ultimately deliver better patient healthcare.

We understand that your needs and those of your stakeholders are unique and we never try to convince you that one size fits all.

Contact us to discuss your Proficiency Testing Kit Requirements.



## Food and Water Testing Kits

We offer test kits and packaging systems designed to facilitate the testing of water from various sources (sewerage/water refining plants/air-conditioning systems/condensers/cooling towers) in order to prevent and control disease outbreaks. We also supply solutions to support meat plants, food retailers and laboratories in the provision and transport of samples for routine food testing to detect potential threats to public health.

Trusting us with this part of the process enables you to free up more of your organisation's valuable resources and reduce costs.

Our solutions are designed and manufactured with a focus on achieving the best quality samples and ultimately supporting improved public health.

We understand that your needs and those of your stakeholders are unique and we never try to convince you that one size fits all.

Contact us to discuss your Food and Water Testing Kit Requirements.



## Kit Fulfillment

Trusting us with your regulatory compliant (eg UN3373, PI650) medical sample collection kit fulfillment process enables you to free up more of your organisation's valuable resources and reduce costs.

We understand you may have concerns about handing over your entire kit fulfillment process to an outside company. However, you can be reassured that we have the expertise, knowledge, training, quality processes and attention to detail required to provide the very best service on your behalf.

We can provide/offer various fulfilment solutions, including:

- Kit refurbishment
- Stock call-off
- Logistics and delivery services, including a Direct to Patient service

We work on your behalf to develop regulatory compliant smart solutions to address your specialist needs and help you to increase efficiency and reduce overall costs.

Contact us to discuss your Kit Fulfillment Requirements.



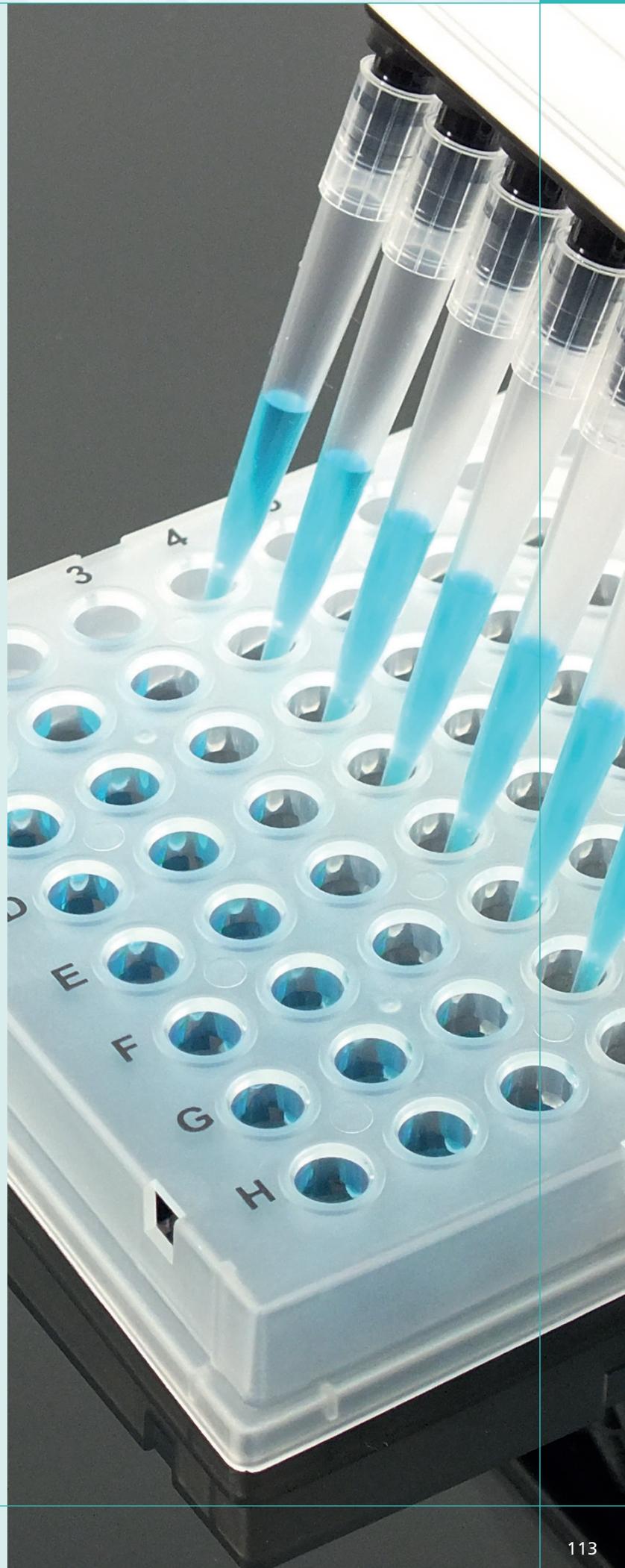
## Quality for Performance

The importance of high quality PCR consumables should not be underestimated. They can have a significant effect on the reaction speed, consistency of results, robustness, product yield, fidelity and specificity of the reaction. Whether you choose individual PCR tubes, strip tubes or plates from Alpha Laboratories, you can rest assured that the ultra thin walls ensure efficient thermal transfer and inhibitor-free certification means no assay interference.

For high throughput assay or storage demands choose from 96 or 384 Well microtitre and deep Well plates or opt for organised microtubes.

Our extensive range of plate sealing options gives you everything you need for PCR, short or long term storage, manual or automation accessibility.

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## PCR Tubes

Designed for optimal heat transfer and sample security, this range of 0.2ml and 0.5ml PCR tubes offers excellent performance and value.

Choose from domed or flat caps. PCR tubes are also available in a range of colours so you can colour co-ordinate samples in your lab to aid workflow.

- Designed to fit all major suppliers' instruments
- 0.2ml or 0.5ml tubes available
- Choice of caps
  - Flat caps for easy sample labelling
  - Domed caps for better heat transfer from thermal cycler lids
- Certified free from RNase, DNase, DNA, DNA Inhibitors and endotoxins



Individual 0.2ml PCR Tubes		
Catalogue Number	Description	Pack Size
LW2330*	0.2ml PCR Tubes, domed caps	1000
LW2170	0.2ml PCR Tubes, flat caps	1000

Individual 0.5ml PCR Tubes		
Catalogue Number	Description	Pack Size
LW2175*	0.5ml PCR Tubes, flat caps	1000

\*Also available in colours. Please see our website.

\*Assorted packs available, add suffix: AS=assorted.

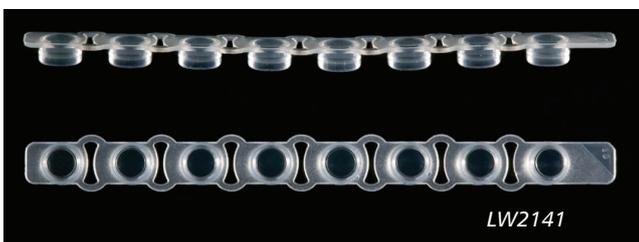
## PCR Tube Strips

Our range of PCR strip tubes has been selected to bring you a comprehensive range for standard and Quantitative PCR.

With all the features of our standard PCR tubes, the strip tube range now includes strips of white tubes with individually attached optically clear caps.

The white Wells maximise reflectance for enhanced signals whilst the optically clear caps enable optimal signal transmission and detection. Optically clear caps are also available on clear strip tubes.

- Some formats can be cut into individual tubes or groups of tubes
- Available without caps for use with cap strips
- Optical, flat or domed caps available
- White tubes for enhanced signals, clear tubes for sample visibility



### 8- and 12-Strip Thin-Walled Tubes and Caps for PCR

Catalogue Number	Description	Pack Size
<b>Strip tubes without caps</b>		
LW2520	0.2ml 8-strip tubes, without caps	125
LW2161	0.2ml 12-strip tubes without caps	80 x 12
<b>Strip tubes with separate strips of caps</b>		
LW2335	0.2ml 8-strip tubes & 8-strip domed caps	125
LW2535	0.2ml 8-strip tubes & 8-strip flat optical caps	125
LW2340	0.2ml 12-strip tubes & 12-strip domed caps	80
<b>Strip tube with attached hinged strip of caps</b>		
LW2500	0.2ml 8-strip tubes & hinged 8-strip domed cap	125
LW2560	0.2ml 8-strip tubes & hinged 8-strip flat optical cap	125
<b>Strip tubes with individually attached caps</b>		
LW2510*	0.2ml 8-strip tubes & individual domed caps	120
LW2505	0.2ml breakable 8-strip tubes & individual flat optical caps	120
LW2570*	0.2ml 8-strip tubes & individual flat optical caps	120
LW2575	0.2ml 8-strip white tubes & individual flat optical caps	120
LW2580	0.1ml 8-strip low profile tubes & individual flat optical caps	10 x 12
<b>Cap Strips - for use with strip tubes above and plates as shown in the compatibility chart</b>		
LW2222	8 Strip Domed Caps, Natural	125
LW2141	0.2ml 8-Strip Caps, Optically Clear	125
LW2190	0.2ml 12-Strip Domed Caps Natural	80
LW2525	0.2ml 12-Strip Flat Optical Caps	80
<b>Cap Strips - for use with plates as shown in the compatibility chart</b>		
LW2905	Domed cap strip, 8, for PCR plates	125
LW2915	Flat cap strip, 8, for PCR plates	125
LW2925	Cap strip, 12, for PCR plates	125

\* Also available in colours. Please see our website.

### Corbett RotorGene qPCR Strip Tubes with Caps

Catalogue Number	Description	Pack Size
LW2590	0.1ml qPCR tubes with caps 4 strip	250
LW2590-BULK	0.1ml qPCR tubes with caps 4 strip	10 x 250

# Microplates and PCR Consumables

## Thermal Cycler Plate Compatibility Chart

Thermal Cycler Make	Thermal Cycler Model	Plate	LW2902	LW2200	LW2910	LW2203	LW2206	LW2940	LW2950	LW2213
			(Unskirted)	(Unskirted)	(Unskirted, Low profile)	(Unskirted, Low profile)	(Chimney top)	(Chimney top, Semi-skirted)	(Raised Rim, Semi-skirted)	(Raised Rim, Semi-skirted)
Alpha Laboratories (Bioer)	GeneTouch / GenePro / XP 96 Well				✓	✓				
	GeneTouch / GenePro / XP 384 Well									
	GeneMax			✓	✓					
	LifeECO / LifeTouch / LifePro			✓	✓					
Analytic Jena	SpeedCycler <sup>®</sup> 96 LP/LPR				✓	✓				
	SpeedCycler <sup>®</sup> 96 SP/SPR	✓	✓							
	Flexcycler 96 / 96G	✓	✓			✓	✓			
Applied Biosystems Life Technologies Thermo Fisher	2720 / Proflex								✓	✓
	GeneAmp <sup>®</sup> 9700								✓	✓
	SimpliAmp <sup>™</sup>								✓	✓
	Veriti <sup>®</sup> FAST / Veriti <sup>®</sup> Dx Fast								✓	✓
	Veriti <sup>®</sup> / Veriti <sup>®</sup> Dx								✓	✓
Veriti <sup>®</sup> 384									✓	
Arktik	Arktik			✓	✓					
Biometra	TProfessional Standard SL			✓	✓					
	TProfessional Std / Basic / Advanced			✓	✓					
	TRobot									
	TGradient	✓	✓							
Bio-Rad (MJ Research)	C1000/S1000 Touch Fast			✓	✓					
	C1000 / S1000 Deep Well	✓	✓	✓	✓					
	C1000 / S1000 Touch 384			✓	✓					
	DNA Engine 96 Well / PTC-100	✓	✓	✓	✓		✓			
	DNA Engine 384 Well									
	iCycler <sup>™</sup>	✓	✓							
	MyCycler	✓	✓							
	Mini Gradient				✓					
	GeneCycler			✓						✓
	Personal		✓							
Corbett	PalmCycler 96	✓		✓				✓		
	PalmCycler 384									
Eppendorf	Mastercycler / Pro / Gradient			✓	✓					
	Mastercycler 384 / Pro 384									
	Mastercycler Nexus	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Mastercycler ep	✓	✓	✓	✓	✓	✓	✓	✓	✓
G-Storm/VWR	GStorm 96 Well	✓	✓	✓	✓	✓	✓			
	GStorm 384 Well									
MWG/Peqlab	Primus 96 / Peqstar 96	✓	✓	✓	✓	✓				✓
	Primus 384 / Peqstar 384									
Stratagene	SureCycler 8800 96 Well	✓	✓			✓	✓			
	SureCycler 8800 384 Well									
	RoboCycler 96	✓	✓	✓			✓			
	RoboCycler Gradient	✓	✓	✓	✓	✓	✓	✓		✓
Techne	Prime Combi	✓	✓	✓	✓	✓	✓	✓		
	Prime 96 / Elite 96 / EliteSAT	✓	✓	✓	✓	✓	✓	✓		
	Prime Elite 384 / 384 / EliteSAT									
	Touchgene / Cyclogene	✓	✓	✓	✓	✓	✓	✓		✓
	Genius / Genius Quad	✓	✓	✓	✓	✓	✓	✓		✓
	Genius TC412	✓	✓	✓	✓	✓	✓	✓		✓
	Flexigene	✓	✓	✓	✓	✓	✓	✓		✓
	Touchgene X / TC512	✓	✓	✓	✓	✓	✓	✓		✓

## qPCR Plate Compatibility Chart

Alpha Labs (Bioer)	LineGene 96 series		✓							
Applied Biosystems Life Technologies Thermo Fisher	7000								✓	✓
	7300 / 7500								✓	✓
	7900 HT / Quantstudio (DX) / Via7 (DX)								✓	✓
	7500 FAST / FAST DX / 7900 HT FAST								✓	✓
	Step One plus / Via7 FAST / DX FAST									
Biometra	TOptical			✓	✓					
Bio Rad (MJ Research)	CFX 96 Touch / CFX Connect			✓	✓					
	CFX 96 Touch Deep Well	✓	✓	✓	✓					
	CFX 384 Touch									
	iCycler iQ <sup>®</sup> / iQ <sup>™</sup> 5 / MyiQ2 <sup>™</sup> / MyiQ <sup>™</sup> 2			✓	✓					
	Chromo4 <sup>™</sup> System			✓	✓					
Eppendorf	DNA Engine Opticon <sup>®</sup> 2 / Mini Opticon	✓	✓	✓	✓					
Roche	Lightcycler 96 / 480									
Stratagene	Mx3000P / Mx3005P	✓	✓			✓	✓			
Techne	PrimeQ	✓	✓	✓	✓	✓	✓			

## Sequencer Plate Compatibility Chart

Applied Biosystems Life Technologies Thermo Fisher	310									
	3130 / XL								✓	✓
	3500 / XL / XL DX / DX								✓	✓
	3730 / XL								✓	✓
Transgenomic	Wave 3500									

## Sealing Options

	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films
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This chart is intended as a guide only

## Thermal Cycler Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW2225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
		✓	✓		✓	✓		✓	✓		GeneTouch / GenePro / XP 96 Well	Alpha Laboratories (Bioer)
		✓	✓		✓	✓		✓	✓		GeneTouch / GenePro / XP 384 Well	
		✓	✓		✓	✓		✓	✓		GeneMax	
✓			✓		✓	✓					LifeECO / LifeTouch / LifePro	Analytic Jena
✓			✓		✓	✓					SpeedCycler <sup>2</sup> 96 LP/LPR	
✓			✓		✓	✓					SpeedCycler <sup>2</sup> 96 SP/SPR	
					✓	✓					Flexcyler 96 / 96G	Applied Biosystems Life Technologies Thermo Fisher
					✓	✓					2720 / Proflex	
					✓	✓					GeneAmp <sup>®</sup> 9700	
					✓	✓					SimpliAmp <sup>™</sup>	
	✓										Veriti <sup>®</sup> FAST / Veriti <sup>®</sup> Dx Fast	Arktik
		✓	✓				✓		✓		Veriti <sup>®</sup> / Veriti <sup>®</sup> Dx	
		✓	✓				✓		✓		Veriti <sup>®</sup> 384	
	✓	✓	✓		✓	✓	✓	✓	✓		Arktik	Arktik
		✓	✓		✓	✓					TProfessional Standard.SL	Biometra
		✓	✓		✓	✓					TProfessional Std / Basic / Advanced	
✓		✓	✓		✓	✓					TRobot	
		✓	✓		✓	✓					TGradient	Bio-Rad (MJ Research)
		✓	✓		✓	✓					C1000 / S1000 Touch Fast	
		✓	✓		✓	✓					C1000 / S1000 Deep Well	
		✓	✓		✓	✓					C1000 / S1000 Touch 384	
		✓	✓		✓	✓					DNA Engine 96 Well / PTC-100	
		✓	✓		✓	✓					DNA Engine 384 Well	
					✓	✓					iCycler <sup>™</sup>	Corbett
✓											MyCycler	
					✓						Mini Gradient	
											GeneCycler	
					✓						Personal	Eppendorf
					✓						PalmCycler 96	
		✓	✓		✓	✓					PalmCycler 384	Eppendorf
		✓	✓		✓	✓					Mastercycler / Pro / Gradient	
✓	✓	✓	✓		✓	✓	✓	✓	✓		Mastercycler 384 / Pro 384	
✓					✓	✓					Mastercycler Nexus	G-Storm/VWR
✓					✓	✓					Mastercycler ep	
✓					✓	✓					GStorm 96 Well	MWG/Peqlab
✓					✓	✓					GStorm 384 Well	
✓					✓	✓					Primus 96 / Peqstar 96	Stratagene
✓					✓	✓					Primus 384 / Peqstar 384	
✓					✓	✓					SureCycler 8800 96 Well	Stratagene
✓					✓	✓					SureCycler 8800 384 Well	
✓					✓	✓					RoboCycler 96	
✓					✓	✓					RoboCycler Gradient	Techne
✓		✓	✓		✓	✓					Prime Combi	
✓		✓	✓		✓	✓					Prime 96 / Elite 96 / EliteSAT	
✓					✓	✓					Prime Elite 384 / 384 / EliteSAT	
✓					✓	✓					Touchgene / Cyclogene	Techne
✓					✓	✓					Genius / Genius Quad	
✓	✓				✓	✓					Genius TC412	
✓	✓				✓	✓					Flexigene	
✓	✓				✓	✓					Touchgene X / TC512	

## qPCR Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW2225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
											LineGene 96 series	Alpha Labs (Bioer)
											7000	Applied Biosystems
											7300 / 7500	Life Technologies
											7900 HT / Quantstudio (DX) / ViiA7 (DX)	Thermo Fisher
											7500 FAST / FAST DX / 7900 HT FAST	Biometra
											Step One plus / ViiA7 FAST / DX FAST	
											Optical	Bio Rad (MJ Research)
											CFX 96 Touch / CFX Connect	
											CFX 96 Touch Deep Well	
✓											CFX 384 Touch	Eppendorf
✓											iCycler iQ <sup>®</sup> / iQ <sup>™</sup> 5 / MyiQ2 <sup>™</sup> / MyiQ <sup>™</sup> 2	
											Chromo4 <sup>™</sup> System	
											DNA Engine Opticon <sup>®</sup> 2 / Mini Opticon	
											Mastercycler ep Realplex <sup>®</sup> (4)	Roche
											Lightcycler 96 / 480	Stratagene
✓											Mx3000P / Mx3005P	
✓											PrimeQ	Techne

## Sequencer Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW2225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
	✓										310	Applied Biosystems
	✓										3130 / XL	Life Technologies
	✓										3500 / XL / XL DX / DX	Thermo Fisher
	✓										3730 / XL	Transgenomic
					✓	✓					Wave 3500	

## Sealing Options

LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	foils & films	foils & films	Foils & films					

This chart is intended as a guide only

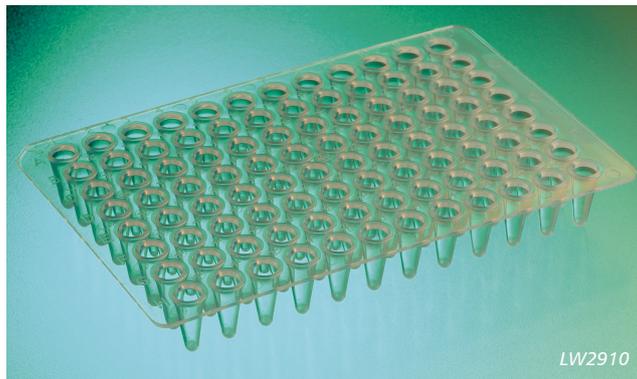
## PCR Plates

Alpha Laboratories' range of PCR plates offers you a wide choice for compatibility with most Thermal Cyclers currently available. The 96 and 384-Well plates are thin walled with excellent thermal transfer for reproducible results and maximum yields.

All plates have a low rim around each Well, minimising cross-contamination, and can be sealed using our adhesive films and foils, or strip caps. They are also alphanumeric Well-indexed and conform to standard SBS footprints.

All PCR plates are guaranteed and certified free from RNase, DNase, DNA and Pyrogens. Supplied in re-sealable bags.

*For specific instrument compatibility of Alpha plates – please refer to the table on the previous page.*



LW2910



LW2902



LW2200

### Amplify Small PCR Plates

Catalogue Number	Description	Pack Size
LW2901	Amplify non-skirted 48-Well PCR Plate	50
LW2900	Amplify non-skirted 24-Well PCR Plate	50

### Amplify Non-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2902-10	Amplify PCR Plate	H12	10
LW2902	Amplify PCR Plate	H12	100
LW2910-10	Amplify PCR Plate, low profile	A1	10
LW2910	Amplify PCR Plate, low profile	A1	100
LW2200-10	PCR Plate, black alphanumeric	A12	10
LW2200	PCR Plate, black alphanumeric	A12	100
LW2203-20	PCR Plate, low profile, black alphanumeric	H12	20
LW2203	PCR Plate, low profile, black alphanumeric	H12	100
LW2206-10	Chimney top PCR Plate, black alphanumeric	H12	10
LW2206	Chimney top PCR Plate, black alphanumeric	H12	100



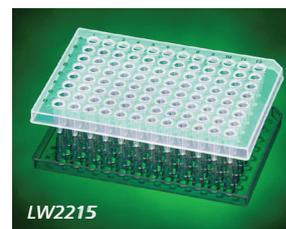
LW2203



LW2214

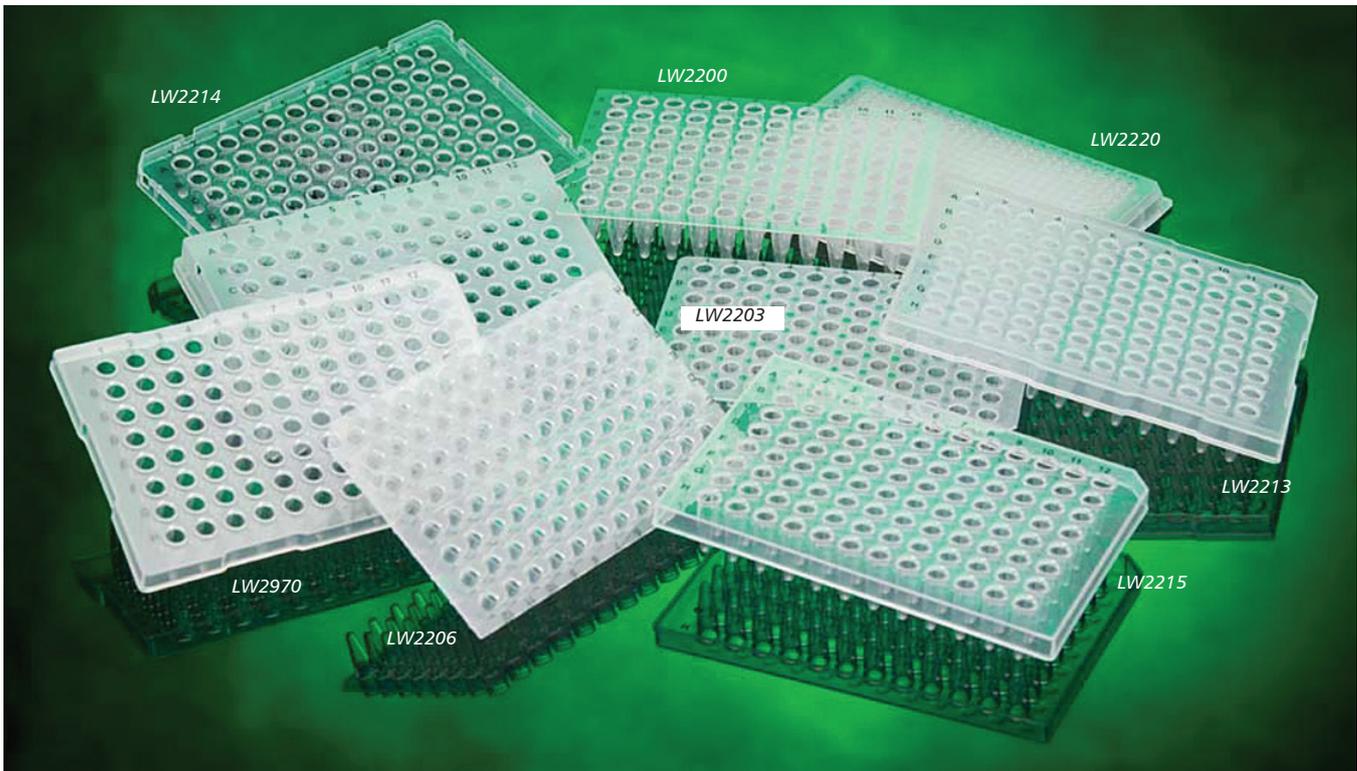


LW2206



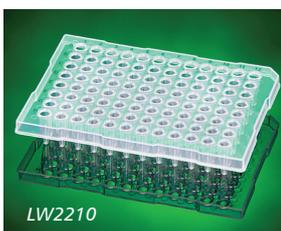
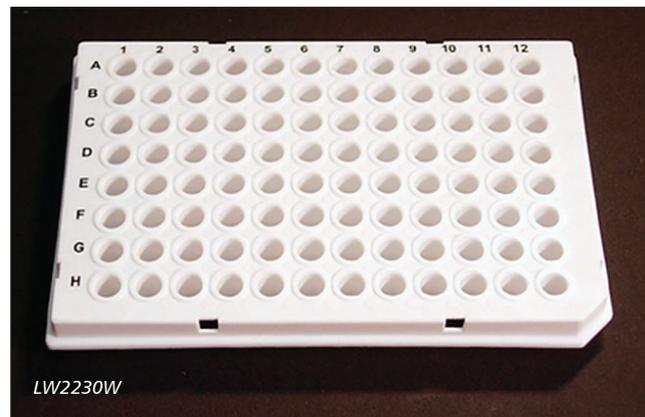
LW2215

## PCR Plates



For barcoded and 384-Well plates, see next page.

Amplify Semi-Skirted 96-Well PCR Plates			
Catalogue Number	Description	Corner Cut	Pack Size
LW2940-10	Amplify PCR Plate (Corning type)	A1	10
LW2940	Amplify PCR Plate (Corning type)	A1	100
LW2950-10	Amplify PCR Plate (Perkin Elmer type)	A12	10
LW2950	Amplify PCR Plate (Perkin Elmer type)	A12	100
LW2213-10	Raised perimeter, PCR Plate, black alphanumeric	A12	10
LW2213	Raised perimeter, PCR Plate, black alphanumeric	A12	100
LW2970-10	Amplify PCR Plate, black alphanumeric	A12	10
LW2970	Amplify PCR Plate, black alphanumeric	A12	100
LW2210-10	Amplify PCR Plate, low profile, black alphanumeric	A12	10
LW2210	Amplify PCR Plate, low profile, black alphanumeric	A12	100
LW2214-10	FAST PCR Plate, black alphanumeric	A1	10
LW2214	FAST PCR Plate, black alphanumeric	A1	100
LW2215-10	Straight-sided PCR Plate, black alphanumeric	A12	10
LW2215	Straight-sided PCR Plate, black alphanumeric	A12	100
LW2230W-10	PCR Plate, low profile, white, black alphanumeric	H12	10
LW2230W	PCR Plate, low profile, white, black alphanumeric	H12	100



Amplify Full-Skirted 96-Well PCR Plates			
Catalogue Number	Description	Corner Cut	Pack Size
LW2920-10	Amplify PCR Plate	A1	10
LW2920	Amplify PCR Plate	A1	100
LW2216-10	PCR Plate, low profile natural black alphanumeric	A12	10
LW2216	PCR Plate, low profile natural black alphanumeric	A12	100

## Barcoded PCR Plates

### Standard Labelled Plates

#### Barcode labels



- Label size approximately 5 x 50mm

#### Coding Code 128

Incorporated in the code is a non-repeating numeric sequence in both barcode and human readable format.

*Note: as the code is guaranteed non-repeating, it is possible that any case of plates purchased may not contain a continuous, unbroken, sequence of labels.*

#### 96-Well Barcoded Plates

Catalogue Number	Description	Barcode Position	Pack Size
LW2215-BAR	Semi-skirted, "straight side", natural	H1:H12	100
LW2230W-BAR	Semi-skirted, low profile, "Lightcycler-type", white	A1:A12	100

### Custom-Labelled Plates

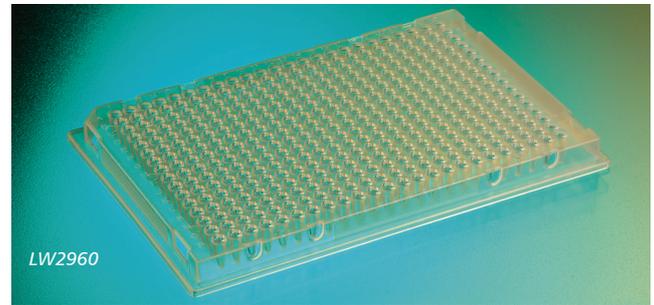
Other PCR and Deep Well plates can be barcode labelled or additional barcodes can be added to the plates detailed above.

Please contact your Alpha Laboratories Account Manager to discuss your requirements.

All custom orders have a minimum of 2,000 plates/parts per order.

## PCR Plates

### Amplify 384-Well Skirted PCR Plates



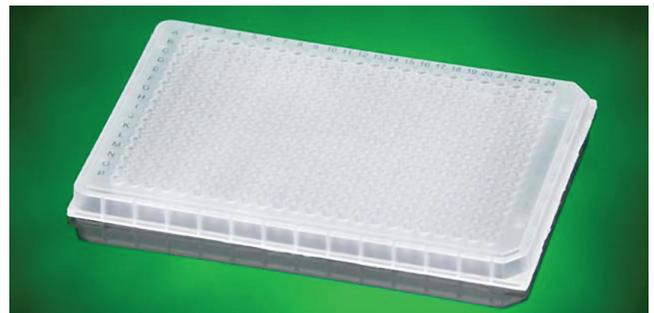
Our 384-Well plates have been specifically designed for high throughput PCR with a 40µl capacity for reaction volumes of 2 - 30µl. Also available as opaque white for luminescence based procedures.

- Skirted for bar-coding or labelling
- Can be sealed with adhesive foils or films

#### Amplify 384-Well PCR Plates

Catalogue Number	Description	Pack Size
LW2960	Amplify 384-Well skirted PCR Plate, natural	100 (10x10)
LW2922W	Amplify 384-Well skirted PCR Plate, white	100 (10x10)

### Amplify 384-Well PCR Plates for LightCycler® and ABI Instruments



This fully skirted 384-Well PCR plate is ideally suited for your critical high-throughput procedures. Each Well has a nominal working volume of 25µl. Alphanumeric indexing is printed in black for easy identification of samples.

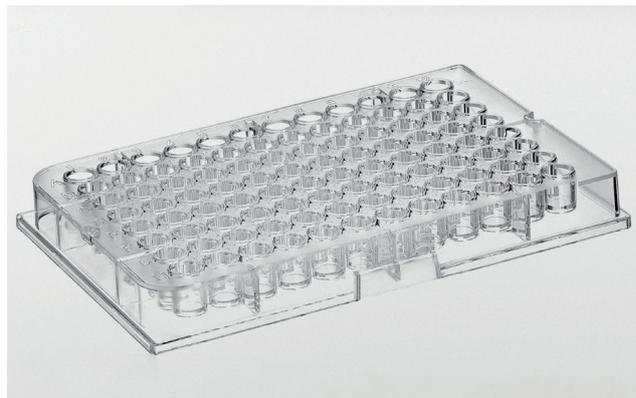
ABI (Life Technologies) type plate has an orientation cut at position A24. For LightCycler® type plates orientation cuts are at A24 and P24.

#### Amplify 384-Well PCR Plate

Catalogue Number	Description	Pack Size
LW2225	384-Well white PCR Plate, ABI type	10 x 10
LW2220	384-Well PCR Plate, LightCycler-type	100 (10x10)
LW2220W	384-Well white PCR Plate, LightCycler-type	10 x 10

## 96-Well Microtitre Plates

Alpha's shallow, 96-Well, microtitre plates incorporate a moulded alphanumeric index with rounded corners at positions A1 and H1 for easy orientation. They are manufactured from uncoated, transparent polystyrene. The static-free plates also feature raised Well rims to prevent cross-contamination. They are available sterile or non-sterile in a choice of U, V or Flat bottom Wells to suit your application. Microtitre plate lids are also available, free from markings for optimal visibility, with a raised rim for convenient stacking of plates. Footprint 128 x 86mm.



96-Well Microtitre Plates		
Catalogue Number	Description	Pack Size
MP3020	96-U-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3030	96-U-Well Microplate, Polystyrene, Sterile	20x5
MP3040	96-V-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3050	96-V-Well Microplate, Polystyrene, Sterile	20x5
MP3060	96-Flat-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3070	96-Flat-Well Microplate, Polystyrene, Sterile	20x5
MP3080	Lid for Microplates, Polystyrene, Non-Sterile	20x5
MP3090	Lid for Microplates, Polystyrene, Sterile	20x5

- **U-Well** – Round bottom Wells improve washing efficiency and the absence of sharp corners makes these ideal for agglutination tests. Well capacity 300µl.
- **V-Well** – Conical bottom Wells are a must when optimal sample recovery is a priority. Well capacity 230µl.
- **F-Well** – Flat bottom Wells are ideal when making optical measurements such as colorimetric determinations or microscopy work. Well capacity 350µl.

## 96-Well Deep Well Plates

### Deep Well Plates – Round Aperture

Deep Well microtitre plates are perfect for high throughput screening. Conforming to the SBS footprint these plates are compatible with leading robotic sample processors, automated liquid handling systems and 8- or 12-channel pipettes.

Suitable for numerous applications including combinatorial chemistry, cell or bacterial culture, DNA sequencing or library storage.

96-Well Deep Well Plates – Round Aperture		
Catalogue Number	Description	Pack Size
LW9435	96-Deep Well Microplate, 1.2ml, Polystyrene, Round Bottom, Non-Sterile	4 x 6
LW9436	96-Deep Well Microplate, 1.2ml, Polystyrene, Round Bottom, Sterile	4 x 6
LW9445	96-Deep Well Microplate, 1.2ml, Polypropylene, Round Bottom, Non-Sterile	4 x 6
LW9446	96-Deep Well Microplate, 1.2ml, Polypropylene, Round Bottom, Sterile	4 x 6
LW9455	Pierceable Mat Cover, Non-Sterile for 1.2ml Plates	24
LW9456	Pierceable Mat Cover, Sterile for 1.2ml Plates	24

These plates have round aperture Wells, ø6.7mm, with a U-shaped bottom and incorporate a moulded alphanumeric index and a cut corner at position H1 for easy orientation. Well capacity is 1.2ml uncapped (when capped with the polyolefin and elastomer sealing mat the capacity will be 1.0ml). Available in transparent polystyrene (frosted Well bottoms) with a centrifuge rating of 3000g (when using a microtitre plate rotor) or opaque, DMSO resistant polypropylene with a rating of 6000g. Polypropylene plates are ideal for cold storage with a temperature range of -196C to +121C (sealing mats have a range of -80C to +80C). Both plates and pierceable sealing mats are available in sterile or non-sterile format.

**SBS footprint**



## Deep Well Plates – Square Aperture

Alpha's square, 8.3mm aperture Deep Well plates are manufactured from tough, DMSO-resistant polypropylene. Suitable for use with sealing films or autoclavable, silicone sealing mats.

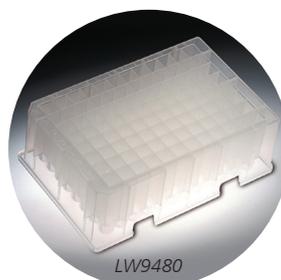
**SBS footprint**

The round bottom plates have a Well capacity of 2.2ml, moulded alphanumeric index and orientation notches at positions A1 and H1. The plates with conical bottom Wells are available in a choice of 1.2ml or 2.2ml Well capacity. These plates have a printed alphanumeric index and single orientation notch at H1.

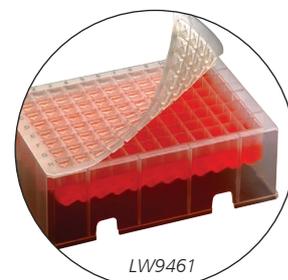


LW9460

96-Well Deep Well Plates – Square Aperture		
Catalogue Number	Description	Pack Size
LW9480	96-Well Deep Well Plate, 2.2ml, Polypropylene, Round Bottom, Non-Sterile	24
LW9460	96-Well Deep Well Plate, 2.2ml, Polypropylene, Conical Bottom, Non-Sterile	5
LW9461	96-Well Deep Well Plate, 1.2ml, Polypropylene, Conical Bottom, Non-Sterile	10



LW9480

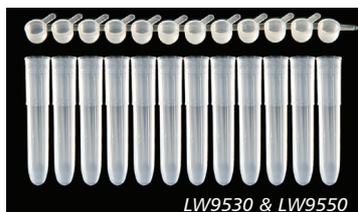


LW9461

## Organised Microtubes



LW9500



LW9530 & LW9550

A great alternative to Deep Well Plates, Alpha's racked microtubes conform to the SBS footprint and are just as versatile. Available in 8- or 12-tube strips or individual tube formats, organised microtubes can offer greater flexibility when you need to access a single sample or sample set. These autoclavable, lidded racks and tubes are manufactured from tough polypropylene and perfectly suited to cold storage. Racked tube strips feature a printed alphanumeric index on the rack, a clear lid free from markings (a cardboard index card is provided) and orientation notches at position H1.

**SBS footprint**

The individual, racked tubes are supplied in a rack with a moulded alphanumeric index and a frosted lid. Refill tubes are available. Compatible plug cap strips are available in both 8- and 12-strip formats, manufactured from non-autoclavable, low-density polyethylene; both sterile and non-sterile options are offered. Each cap features an individual tab to aid removal and strips can be easily cut into individual caps if required.



QS845 and QS847

## Organised Tubes and Caps

Catalogue Number	Description	Pack Size
<b>Racked Tubes - Strips</b>		
LW9500	1.2ml Organised Tubes, Racked 12 strips of 8 NS	10 x 96
LW9505	1.2ml Organised Tubes, Racked 12 strips of 8 tubes, Sterile	10 x 96
LW9520	1.2ml Organised Tubes, Racked 8 strips of 12 NS	10 x 96
LW9510	1.2ml Tubes in Strips of 8 Tubes Refill NS	125 x 8
LW9530	1.2ml Tubes in Strips of 12 Tubes Refill NS	80 x 12
<b>Racked Tubes - Individual</b>		
QS845TP	1.2ml Microtube Rack with 96 Individual Tubes, Non-Sterile	10 x 96
QS845TPS	1.2ml Microtube Rack with 96 Individual Tubes, Sterile	10 x 96
QS845	1.2ml Tubes, Loose	1000
<b>Cap Strips</b>		
QS847	Strips of 8 Caps, Non-Sterile	120 x 8
QS847S	Strips of 8 Caps, Sterile	120 x 8
LW9550	Strip of 12 Caps, Non-Sterile	80 x 12
LW9540	Strip of 8 Caps, Non-Sterile	125 x 8
LW9555	Strip of 12 Caps, Sterile	80 x 12

## 384-Well Microplates and Deep Well Plates



384-Well Plates are perfect for compound storage and handling of biological samples. The rounded Well bottom facilitates aspiration. Suitable for use with DMSO and biological buffers.

**SBS  
footprint**

- Suitable for DMSO
- Conforms to SBS standards
- Autoclavable

### 384-Well Microplates

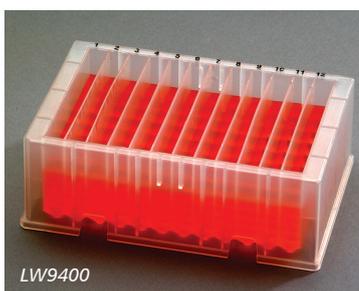
Catalogue Number	Description	Pack Size
LW9600	120µl 384-Well Plate, Polypropylene	4 x 6
LW9601	200µl 384-Deep Well Plate, Polypropylene	4 x 6
LW9602	400µl 384-Deep Well Plate, Polypropylene	4 x 6

## Reagent Reservoirs

Our 12-Channel reservoir is manufactured from durable, polypropylene and conforms to SBS footprint so it is ideal for use with automated workstations whilst equally suited to use with a multichannel pipette. Each of the twelve reservoirs is clearly numbered and has a generous capacity of 22ml. The base of each reservoir channel is V-shaped to minimise reagent wastage. These reservoirs can be easily covered with sealing films or the square section sealing mat LW9465.

Our single Well re-useable reagent troughs are manufactured from durable, chemical resistant polypropylene and may be autoclaved. Suitable for use with both 8- and 12-channel pipettes, the V-shaped basins are designed to minimise reagent waste. These un-lidded troughs have a capacity of 120ml and stack neatly for compact storage when not in use.

**SBS  
footprint**



Our lidded, 175ml reservoir has moulded volume graduations and a reinforced base to prevent wobbles on the bench and to avoid spillage. The reservoir lid is attached with ball and socket hinges and can be easily removed for convenience when the reservoir is in use. The latched lid provides a secure closure for storing reagents and the perimeter ridge on the lid makes stacking reservoirs easy and prevents them from sliding.



### Reagent Reservoirs

Catalogue Number	Description	Pack Size
LW9400	12-Channel Reservoir, Polypropylene	20
783-500	120ml Reagent Trough	16
LW9570	175ml Lidded Reservoir	10

## Adhesive Plate Seals for Microtitre and Deep Well Plates

Microplates are a standard tool in bioanalytical research and clinical diagnostic testing laboratories. They are used in virtually every Life Sciences application as they simplify the handling of large numbers of samples and enable automation.

Adhesive sealed films and foils can offer more permanent sealing. Films and foils are application based in their design and provide protection against evaporation, condensation, oxidation and cross contamination during processing, storage and shipment.

Adhesive seals are easily applied by hand using a sealing roller or paddle, making them ideal for use where smaller numbers of samples are processed. They are also available in roll format for use on sealing machines that can apply pressure without a high temperature for use where samples are heat sensitive and the throughput is high.

Sealing mats also provide a temporary closure and in addition provide protection against evaporation of samples. Furthermore, they can be autoclaved and re-used if required.

All our adhesive plate seals are certified free of DNase, RNase and nucleic acids.

### Applications

Applications for sealing films mirror the applications for multi-well plates and tissue culture plates that have become ubiquitous in today's laboratories. These include enzyme-linked immunosorbent assays (ELISAs) and polymerase chain reaction (PCR) methods for amplification of nucleic acids for analysis and quantification, both classic and real-time. Other films are designed to support manual and robotic processing and storage of samples in high-throughput screening (HTS), to maximise signal to noise in fluorescence and luminescence assays, and to promote uniform gas exchange in cell and tissue culture procedures.

#### PCR and qPCR

Our extensive range of seals includes films for PCR and qPCR, which offer better adhesion and combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing medical-grade adhesive for superior performance in realtime PCR applications. In addition to films, we also offer PCR Foils. These combine soft non-permeable aluminium with strong medical-grade adhesive to eliminate the need for heat-sealing devices or mats when protecting samples and prevent evaporation during PCR thermal cycling.

#### Other Applications

Designed for both long- and short-term storage, other films support manual and robotic processing of samples, maximise signal to noise in fluorescence and luminescence assays, and promote uniform gas exchange in cell and tissue culture procedures. With high throughput HPLC systems using solvents, getting a good seal can be problematic. Alpha Laboratories have sealing films with special features which avoid tip fouling and strong solvent resistant adhesives, making them particularly suitable for this application.

Our guide overleaf can help you choose the right seal for your particular application.

*For sealing film accessories please see page 143.*



## Choose The Best Plate Seal For Your Application

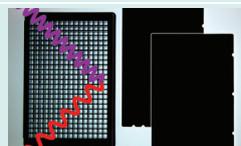
### Cell / Tissue / Bacterial Culture



Page 126

AeraSeal™ films are 140µm thick hydrophobic porous rayon sealing films including medical-grade adhesive for tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth.

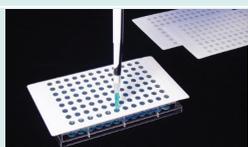
### Fluorescence / Luminescence



Page 127

Light-reflecting films for use in luminescence and microscopy applications, reducing stray light and well-to-well crosstalk.

### HPLC



Page 128

With high throughput HPLC systems using solvents, getting a good seal can be problematic. These sealing films all have special features which avoid tip fouling and strong solvent resistant adhesives, making them particularly suitable for this application.

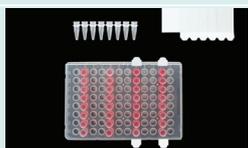
### Long Term Storage



Page 129-130

Specially formulated sealing films with an adhesive that withstands long term cold storage at temperatures to -80C.

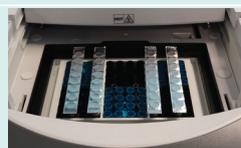
### PCR Film



Page 131-133

These films for classic thermal cycling applications offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate.

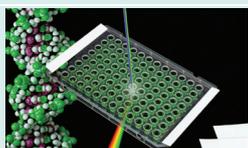
### PCR Foil



Page 134-136

These PCR Foils combine soft non-permeable aluminium with strong medical-grade adhesive to eliminate the need for heat-sealing devices or mats when protecting samples and prevent evaporation during PCR thermal cycling.

### Protein Crystallography



Page 137

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications.

### qPCR Optical Film



Page 138

ThermalSeal sealing films combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications.

### Short Term Storage, Incubation & ELISA



Page 139-142

These sealing films are clear for colorimetric assays and minimise evaporation and well-to-well contamination. Ideal for short term incubation or storage applications.

### Sonication



Page 142

X-Pierce pre-cut sealing films are also recommended for protection of samples in 96-well plates from splash-out during sonication using Microtips and Multi-Element Probes with ultrasonic apparatus available from Sonics & Materials, Inc.



## Adhesive Plate Seals for Cell / Tissue / Bacterial Culture

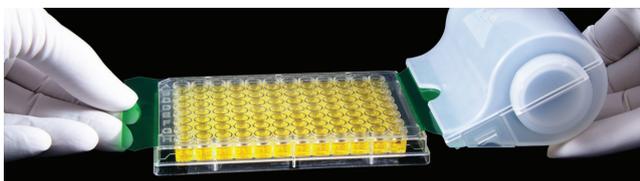
AeraSeal™ films are 140µm thick hydrophobic porous rayon sealing films including medical-grade adhesive for tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth.

### SealMate™ System

- Convenient, easy film application for microplates
- Three times faster than sheet films
- Inexpensive applicator
- Reduced waste; no protective backing to remove and discard
- Smooth lower surface for pressing film to the plate
- Available sterile and non-sterile

Excel Scientific's unique SealMate™ system provides a convenient new method for sealing standard-format microplates with adhesive films. The system includes a moulded polypropylene dispenser with a hinged "clamshell" design and sealing films supplied in a novel sheeted-roll configuration.

The SealMate™ dispenser provides a protective enclosure for films on the roll prior to dispensing. Individual films on the roll are delineated by non-adhesive colour bands that serve as end-tabs for positioning the films on the microplates.



Each non-adhesive band contains two perforations, the first of which, bounded by a small indent at the edges, tears easily to separate the sheet being dispensed from the next sheet on the roll. The second perforation permits the end-tab to be removed from the plate once the film has been applied.

These unique features contribute to ease and usability:

- The SealMate™ system reduces laboratory waste because the film is rolled on itself with no extra paper or plastic liner to be discarded before sealing the plate
- Each AeraSeal roll contains films to cover 50 culture plates

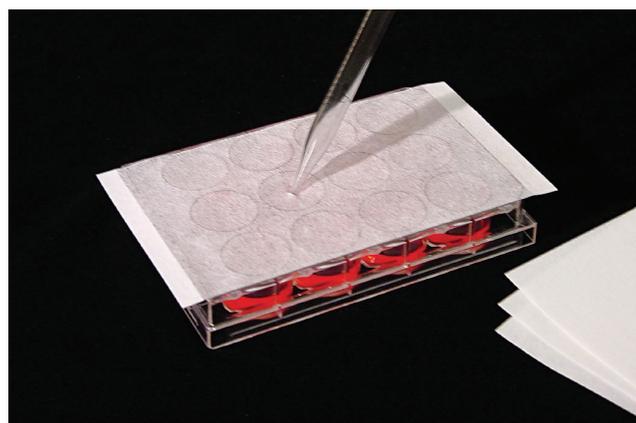
#### SealMate™ System

Catalogue Number	Description	Pack Size
LW2704	AeraSeal Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of AeraSeal Films	1 Kit
LW2706	AeraSeal Refill Roll, Non-Sterile	2
LW2714	AeraSeal Starter Kit, Sterile - SealMate Dispenser + 2 Rolls of AeraSeal Films	1 Kit
LW2716	AeraSeal Refill Roll, Sterile	2

### AeraSeal™

A 140µm thick hydrophobic porous sealing film with medical-grade adhesive for tissue culture plates, bio-blocks, and 96-Well plates where gas exchange is necessary for cell or bacterial growth. AeraSeal™ sealing films minimise cross-contamination, spillage and evaporation. They allow uniform air and CO<sub>2</sub> exchange for all Wells, during incubation.

- Non-cytotoxic, highly gas permeable
- Easily pierceable with pipette tips or pipettes for sample recovery
- Recommended for temperatures from -20C to +80C



#### AeraSeal™ Sealing Film

Catalogue Number	Description	Pack Size
LW2782	AeraSeal™ Sealing Films, Non-Sterile	100
LW2783	AeraSeal™ Sealing Films, Sterile	50 (2 x 25)
LW2720	AeraSeal™ 100m roll for automation	1 Roll

## Adhesive Plate Seals for use in Fluorescence / Luminescence

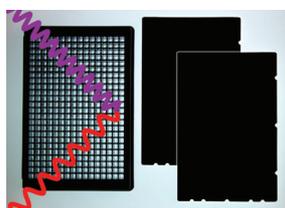
Light-reflecting films for use in luminescence and microscopy applications, reducing stray light and well-to-well crosstalk.

### AbsorbMax™

203µm thick black vinyl adhesive sealing films for use with 96-Well, 384-Well, and 1536-Well black solid and clear bottom microplates.



The sealing films may be applied to either the top or bottom of the plate. A split backing aids in applying the sealing film properly. Edge cut-outs assist in positioning and accommodate ribs on the plate bottom.



For top-reading fluorescence applications, apply the black sealing film to the base of clear-bottomed plates.

For bottom-reading fluorescence, use the black sealing film as a top seal.

Film dimensions are 114.3 x 76.2 mm

- Protect light-sensitive samples during storage or incubation
- Reduce stray light and crosstalk in fluorescence assays

#### AbsorbMax™ Sealing Film

Catalogue Number	Description	Pack Size
BK-50	AbsorbMax™ Black Sealing Films, Non-Sterile	50

### BrightMax™

BrightMax™ sealing films are 203µm thick white vinyl films with 37µm acrylic adhesive for use with white microplates.

The sealing films may be applied to either the top or bottom of the plate. A split backing aids in applying the sealing film properly.

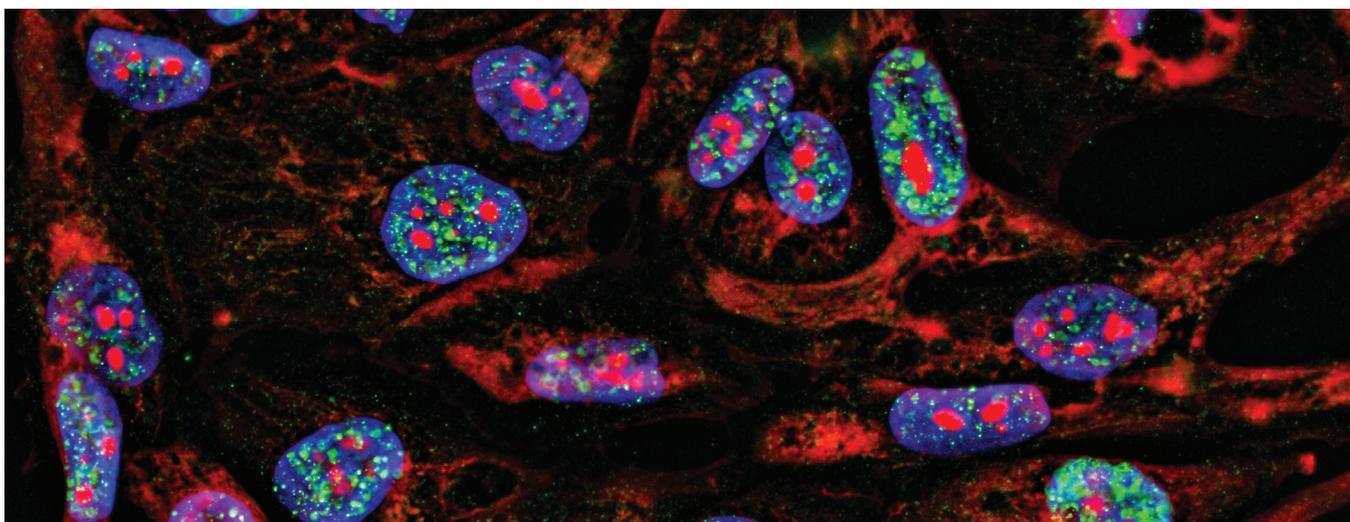
The light-reflective properties of BrightMax plate-sealing films on clear-bottom plates maximize sensitivity of bioluminescence and chemiluminescence assays in bottom-reading luminometers. White films also have an application as a backing matrix for microscopy of punch-out samples from filter plates, for example in ELISPOT assays.



- Recommended temperature range: -40C to +80C.
- White light-reflecting sealing films for use with white microplates
- Can be applied to the top or bottom of the plate
- Maximise intensity and signal-to-noise ratios in luminescence assays
- Can be used for mounting and storage of filters for microscopy, for example in ELISPOT assays

#### BrightMax™ Sealing Film

Catalogue Number	Description	Pack Size
LW2795	BrightMax Sealing Film	50



## Adhesive Plate Seals for HPLC

With high throughput HPLC systems using solvents, getting a good seal can be problematic. These sealing films all have special features which avoid tip fouling and strong solvent resistant adhesives, making them particularly suitable for this application.

### ThermalSeal RTS™

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications. When pressed against the sealing surface, the inert encapsulated silicone adhesive is released to form the strongest available heat-resistant seal around each Well on the plate. Adhesive on non-sealing areas of the film, such as directly over sample wells, remains encapsulated and inert. Sized to fit within the edges of raised-rim 96-Well plates, their consistent high optical clarity ensures reproducible, reliable, and consistent DNA amplification measurements and crystal detection.



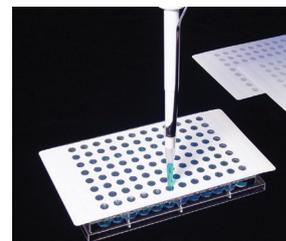
- Non-tacky adhesive layer simplifies handling of film prior to sealing
- Heat resistant, recommended for temperatures from -70C to +100C
- Chemically inert; no extractables except at extreme pH
- DMSO resistant for HTS
- Available as individual sheets or on a 65m roll for HTS automated applications

#### ThermalSeal RTS™ Sealing Film

Catalogue Number	Description	Pack Size
LW2790	ThermalSeal RTS Sealing Films, Non-sterile	100
LW2791	ThermalSeal RTS Sealing Films, Sterile	50
LW2724	ThermalSeal RTS 65m roll for automation	Each

### Zone-Free™

With a 70µm top layer and inert white polypropylene and acrylic adhesive sublayer, this easy-piercing sealing film allows direct sample recovery with single or multichannel pipettors and robotic probes.



- Clear zone above each well is free of adhesive and easily pierceable
- Clear zones and end tabs facilitate well alignment and accurate positioning
- Chemical resistant
- Functional temperature range -40C to +90C

*U.S. and other patents pending.*

#### Zone-Free™ Sealing Film

Catalogue Number	Description	Pack Size
ZAF-PE-50	Zone-Free™ Sealing Films, Non-Sterile	50

### X-Pierce™ Pre-cut Pierceable

X-Pierce™ sealing films are 89µm thick vinyl with a 18µm thick adhesive layer, designed for temporary protection from contamination and evaporation for samples in 96-Well plates. For long-term protection after sampling, a continuous sealing film should be applied as a second layer. Sterile product is packaged in 100µm tamper-evident bags of 25.



- Sealing film reseals for continued sample protection after sampling
- Temperatures -40C to +90C
- Special hairline X-cuts and thin adhesive prevent fouling or occlusion of probes and tips

#### X-Pierce™ Pre-cut Pierceable Sealing Film

Catalogue Number	Description	Pack Size
LW2788	X-Pierce™ Sealing Films, Non-Sterile	100
XPS-25	X-Pierce™ Sealing Films, Sterile	50 (2 x 25)

## Adhesive Plate Seals for Long Term Storage

Specially formulated sealing films with an adhesive that withstands long term cold storage at temperatures to -80C.

### AlumaSeal II™

A 36µm soft, non-permeable aluminum foil sealing film with strong medical-grade adhesive, AlumaSeal II™ sealing films eliminate the need for heat-sealing devices or mats during thermal cycling. Each sealing film offers sufficient sealing area for all PCR plates. Compared to other aluminum foils, AlumaSeal II™ has less tendency to roll back on itself when removing the backing paper and conforms well to the plate during application.

Sterile product is packaged in two 100µm tamper-evident bags of 25.

- Easily pierceable with single or multichannel pipettes and robotic probes
- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Excellent barrier properties, virtually no sample evaporation or drying during incubation or storage



#### AlumaSeal II™ Sealing Film

Catalogue Number	Description	Pack Size
LW2780	AlumaSeal II Sealing Films, Non-sterile	100
LW2781	AlumaSeal II Sealing Films, Sterile	50 (2 x 25)

### AlumaSeal® Roll

Adhesive PCR sealing foils on rolls for use with high-throughput automated microplate sealers. The Roll-Seal format provides reliable and efficient sealing at a lower cost per plate with minimal user intervention. Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion.

#### AlumaSeal® Rolls

Catalogue Number	Description	Pack Size
LW2722	AlumaSeal® 100m Roll-Seal™ for Automation	Each

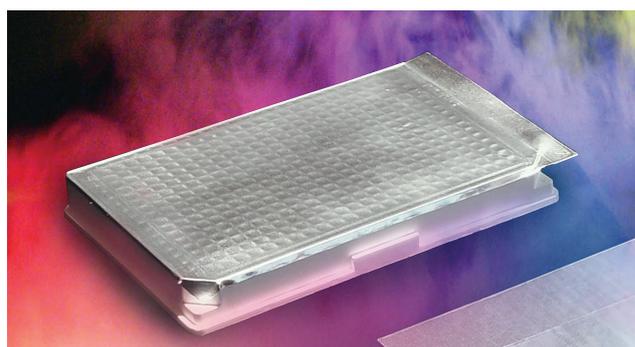
### AlumaSeal CS™

Specially formulated aluminium foil sealing films with an adhesive that withstands cold storage at temperatures to -80C. A single non-perforated end tab simplifies application. Simply hold the tab and strip the backing from the body of the sealing film as it lays on the plate to avoid curling.

Recommended temperature range: -80C to +120C.

AlumaSeal CS™ sealing films are certified DNase-, RNase- and nucleic-acid-free. Sterile product is packaged in tamper-evident zippered bags of 25, two bags per box.

- Excellent barrier properties to retard evaporation
- Easily pierceable with pipette tips or robotic probes for sample recovery



#### AlumaSeal CS™ Sealing Film

Catalogue Number	Description	Pack Size
FC-100	AlumaSeal CS™ Sealing Films, Non-Sterile	100
LW2730	AlumaSeal CS™ Sealing Films, Sterile	50

### AlumaSeal 96™ and 384™

A 38µm thick aluminum foil sealing film for use with 96- or 384-Well plates.

*Pierceable. Available non-sterile only.*

- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Fits inside rim of raised-rim plate

#### AlumaSeal Sealing Film

Catalogue Number	Description	Pack Size
F-96-100	AlumaSeal 96 Sealing Films, Non-sterile	100
F-384-100	AlumaSeal 384 Sealing Films, Non-sterile	100

## ThermalSeal RTS™

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications. When pressed against the sealing surface, the inert encapsulated silicone adhesive is released to form the strongest available heat-resistant seal around each well on the plate. Adhesive on non-sealing areas of the film, such as directly over sample wells, remains encapsulated and inert. Sized to fit within the edges of raised-rim 96-Well plates, their consistent high optical clarity ensures reproducible, reliable, and consistent DNA amplification measurements and crystal detection.

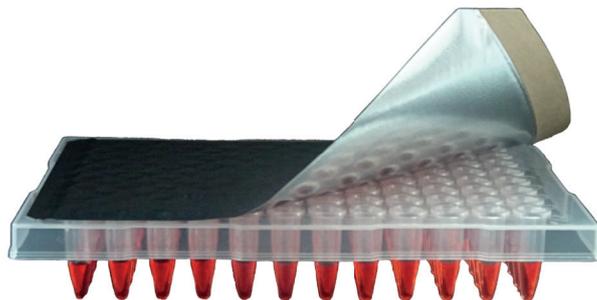


- Non-tacky adhesive layer simplifies handling of film prior to sealing
- Heat resistant, recommended for temperatures from -70C to +100C
- Chemically inert; no extractables except at extreme pH
- DMSO resistant for HTS
- Available as individual sheets or on a 65m roll for HTS automated applications

### ThermalSeal RTS™ Sealing Film

Catalogue Number	Description	Pack Size
LW2790	ThermalSeal RTS Sealing Films, Non-sterile	100
LW2791	ThermalSeal RTS Sealing Films, Sterile	50
LW2724	ThermalSeal RTS 65m roll for automation	Each

## eXTReme™ FoilSeal™



For high performance under extreme conditions. Ideal for PCR, long term compound storage, light sensitive assays and robotics.

A 48µm soft non-permeable aluminium foil sealing film with 30µm layer of strong acrylic adhesive. Provides an excellent seal for all plate materials (e.g. polystyrene, polypropylene and two component polycarbonate/ polypropylene PCR plates), whilst still removing cleanly from plate surfaces with no adhesive stringing, residue or contamination.

- Single end-tab features a custom perforation that will not tear during removal
- Excellent barrier properties minimises sample evaporation
- 48µm thick aluminium foil minimises shredding during removal and is ideal for cold storage
- Conformable foil allows visual verification of seal security

Available in two sizes:

LW2732 - Foils measures 78.3 x 29mm with sufficient sealing area for all plate types (e.g. flat top and raised-rim). Chamfered corners result in no plate overhang for robotics applications. Length between the perforation with end tab removed and the end of the foil seal is 118.1 mm.

LW2731 - Foil measures 81.5 x 135.4 mm with sufficient sealing area for all flat top style microplates, for example deep well, ELISA, or PCR plates. The large cut is designed for greater plate coverage, resulting in a more complete seal around the edges of flat top plates. Ideal for use with deep well plates. Features one end-tab with perforations. Length between the perforation with end tab removed and the end of the foil seal is 124.5 mm.

### eXTReme™ FoilSeal™

Catalogue Number	Description	Pack Size
LW2732	eXTReme™ FoilSeal™ Sealing Foil	100
LW2731	eXTReme™ FoilSeal™ Sealing Foil Large	100