Sterilin

Single Use Plastics featuring Iwaki[®] Cell Biology











Contents

- Introduction
- Barloworld Scientific
- 1 Bags

ii

vi

- 5 Bench protection
- 7 Bottles
- 9 Containers
- 21 Cuvettes
- Dippers 23
- 25 Jars
- 27 Inoculating loops, needles an spreaders
- Microtitre plates 29
- 31 Petri dishes
- 37 **Pipettes**
- Pipette tips 45
- 49 Swabs
- 53 Tubes and vials
- Weighing boats 65
- Iwaki[®] cell biology 69
- Complementary products 81
- 94 **Technical Information**
- Index (by catalogue number) 110
- Index (alphabetical) 115





For more than forty years the Sterilin[®] brand has set world standards for quality, reliability and user safety in the field of of single use laboratory plastics.

This, our biggest and most comprehensive catalogue ever, contains over 800 single-use products for microbiology and the life sciences. With over 100 new products and an extensive and much improved Technical Information section, this new catalogue provides all of information required to help support your day to day work.

For life scientists we have included an extensive range of Iwaki[®] cell biology products. Iwaki[®] branded tissue culture products, from leading edge Japanese company ATG, offer an incomparable level of product quality, innovation, service and support for cell biologists.

We have also introduced a range of complimentary laboratory products including benchtop science equipment from the Barloworld Scientific portfolio of famous brand names, including Pyrex[®], Azlon[®], Stuart[®], Jenway[®], Techne[®] and Esco[®].

Sterilin[®] products are manufactured at our ISO 9001:2000 accredited plant in South Wales, UK, where a commitment to continuous product development and investment in injection moulding technology, clean room and microbiological research facilities ensure that every item is made to the highest possible quality, the same high specification that scientists have come to expect from the Sterilin[®] brand.

All of the products featured in this catalogue are available via an extensive worldwide network of laboratory dealers. Technical advice and guidance on product selection is available from qualified scientists based at Stone, or via our website **www.barloworld-scientific.com.**

Some of the most famous names in science...

Barloworld Scientific is one of the largest broad based manufacturers of laboratory products worldwide, providing internationally recognised brands with reputations for product quality and high performance. These famous brands are now brought together in a single package to offer an incomparable level of quality, service and support.



Science Equipment

Barloworld Scientific manufactures one of the biggest ranges of benchtop equipment available under four famous brand names.

- The extensive Stuart[®] range includes block heaters, blood tube rotators, colony counters, hotplates, hybridisation ovens, rockers, shakers, stirrers and water baths.
- **Techne**[®] is a world leader in the manufacture of temperature control equipment, including water baths, Dri-Block[®] heaters and molecular biology products including hybridisation incubators and thermal cyclers.
- Jenway makes a wide range of scientific instruments including UV/Vis spectrophotometers, flame photometers, colorimeters, portable and laboratory meters for the measurement of dissolved oxygen, pH, conductivity and specific ions.
- Carbolite[®] has built up an enviable reputation for quality and service, manufacturing furnaces and ovens for both standard and completely bespoke applications. All products can be dispatched worldwide from its' custom built modern manufacturing facility in the UK.



Laboratory Glassware

Barloworld Scientific is one of the world's leading manufacturers of laboratory glassware. Production at our UK plant in Stone, Staffordshire combines the latest

technology with the traditional skills of the glassblower to make over 3000 products branded with some of the most famous names in science, including

- Pyrex[®] borosilicate glassware
- Quickfit[®] interchangeable jointed glassware
- E-Mil[®] high accuracy volumetric glassware
- MBL[®] volumetric glassware including burettes, cylinders, flasks and pipettes
- Rotaflo[®] stopcocks for a variety of applications including general purpose and high vacuum usage.







Disposable Plastics

As a pioneer of single use laboratory plastics the Sterilin[®] brand continues to set world standards for quality and reliability in the field of life science.

With an extensive range of consumables for medical and research laboratories, the **Sterilin**[®] brand also incorporates a wide range of products for the pharmaceutical, food, dairy and water testing industries.



Cell Biology

Supplying the increasingly sophisticated field of life sciences, Barloworld Scientific offer one of the widest ranges of biotechnology products available today,

including tissue culture plasticware from the leading edge Japanese cell biology company **Iwaki**[®].



Reusable Plastics

Leadership in polymer science and many important innovations have combined to make **Azlon**[®] one of the most widely known and respected brands in durable

plastic labware. **Azlon**[®] reusable plastics cover a broad range of applications in the modern laboratory including bottles, wash bottles, measuring cylinders and beakers. The **Azlon**[®] fabrication unit can also manufacture specialist plastic products designed to customer requirements.



Silicone Products

Esco[®] branded products comprise an extensive range of silicone compression and extruded items, including specialist custom made parts. Since 1936 Esco[®] has

established an unrivalled reputation for quality and service of silicone rubber and mouldings to healthcare and an increasingly diverse range of industrial clients.

... all from one company with an unrivalled reputation for quality and service.













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vi



Bags

bags



Ball

Bags, Autoclave, 121°C

- Specifically designed for contaminated waste disposal in autoclaves or incinerators
- Suitable for sterilisation at 121°C
- Convenient "tissue box" cartons dispense bags individually
- Strong disposable bags with blue biohazard printing

| Product Code | Description | Max Temp (°C) | Width x Length (mm) | Material | Case Qty | |
|-----------------|---------------|------------------|------------------------|----------|-------------|--|
| 509 | Autoclave Bag | 121 | 305 x 660 | HDPE | 200 | |
| 510 | Autoclave Bag | 121 | 305 x 660 | HDPE | 500 | |
| 509L | Autoclave Bag | 121 | 406 x 610 | HDPE | 200 | |
| 510L | Autoclave Bag | 121 | 406 x 610 | HDPE | 500 | |
| 511 | Autoclave Bag | 121 | 610 x 810 | HDPE | 200 | |



Bags, Autoclave, 135°C

- High temperature bags for the decontamination and inactivation of particularly resistant biological waste
- Suitable for high temperature sterilisation at 135°C
- Specifically designed for contaminated waste disposal in autoclaves or incinerators
- Convenient ''tissue box'' cartons dispense bags individually
- Strong disposable bags with blue biohazard printing

| Product Code | Description | Max Temp (°C) | Width x Length (mm) | Material | Case Qty | |
|-----------------|---------------|------------------|------------------------|----------|-------------|--|
| 509HT | Autoclave Bag | 135 | 307 x 660 | PP | 200 | |
| 510HT | Autoclave Bag | 135 | 307 x 660 | PP | 500 | |
| 509LHT | Autoclave Bag | 135 | 406 x 610 | PP | 200 | |
| 510LHT | Autoclave Bag | 135 | 406 x 610 | PP | 500 | |
| 511HT | Autoclave Bag | 135 | 610 x 810 | PP | 200 | |



Bags, Autoclave, Holders

Coated wire or cardboard holders for use with autoclave bags

| Product Code | Description | Material | Case Qty |
|-----------------|---------------------------|-------------|-------------|
| S23B | Holder for 511 bags | Cardboard | 10 |
| S23C | Holder for 509 & 510 bags | Coated Wire | 1 |
| S23E | Holder for 511 bags | Coated Wire | 1 |

bags

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Bags, Autoclave, Holders (continued)

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For advice on the use of autoclave bags please refer to page 98 of the Technical Information section



Bags, Sampling, Metal Closure

- Ideal for sampling in cosmetic, pharmaceutical, food and veterinary laboratories
- Strong and elastic, bags can hold solid, semi-solid and liquid samples
- Puncture proof tabs ensure safety of operation
- Leak proof once sealed
- Write on area for sample identification

| Product Code | Description | Capacity (ml) | Width x Length (mm) | Sterility | Material | Case Qty |
|-----------------|---------------|------------------|------------------------|-----------|----------|-------------|
| MPE0712 | Sampling bags | 60 | 76 x 127 | EO | PE/ME | 500 |
| MPE0717 | Sampling bags | 180 | 76 x 178 | EO | PE/ME | 500 |
| MPE1730 | Sampling bags | 1650 | 178 x 305 | EO | PE/ME | 250 |
| MPE2530 | Sampling bags | 1800 | 254 x 305 | EO | PE/ME | 250 |

For method of use please refer to page 98 of the Technical Information section





bags - accessories



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Bags, Homogeniser

- Ideal for homogenising food samples prior to microbiological analysis
- Sterilin Steriblend[®] bags are double sealed for strength and reliability ensuring safe homogenisation of samples
- Suitable for use in all leading homogeniser machines
- Manufactured from food grade low density polyethylene and gamma irradiated to ensure sterility
- Heavy gauge polyethylene for strength

| Product Code | Description C | apacity (ml) | Width x Length (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------|-----------------|------------------------|-----------|----------------------|-------------|
| S400 | Homogeniser Bag | 400 | 180 x 300 | IRR | 50 | 500 |
| S405 | Homogeniser Bag | 400 | 180 x 300 | IRR | 5 | 500 |
| S408 | Homogeniser Bag | 80 | 100 x 150 | IRR | 50 | 1000 |
| S435 | Homogeniser Bag | 3500 | 380 x 508 | IRR | 50 | 500 |



Sampling Straws

- Ideal for use with homogeniser bags
- For volumes up to 1ml

| Product Code | Description | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|----------------|-----------|----------------------|-------------|--|
| 121014 | Sampling Straw | IRR | 50 | 2000 | |



Spork

- Ideal for aseptic liquid and solid sampling within the food, pharmaceutical and chemical industries
- Multipurpose cutlery: a spoon, fork and knife all in one, for sample preparation
- Supplied sterile and individually wrapped with the expiry date printed on each bag
- Manufactured from white robust polystyrene

| Product Code | Description | Length (mm) | Capacity (ml) | Material | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-------------|----------------|------------------|----------|-----------|----------------------|-------------|--|
| SPM1 | Spork | 180 | 4 | PS | IRR | 1 | 500 | |



Bench Protection

bench protection



BenchGuard

- Highly absorbent paper ideal for protecting benches and surfaces against liquid spills
- One side plastic coated to prevent soak through
- Available in roll or sheet form
- Rolls supplied in easy to use dispenser packs

| Product Code | Description | Absorption (ml/m²) | Length x Width (m) | Pack Type | Case Qty |
|-----------------|-------------|-----------------------|-----------------------|--------------|-------------|
| BG50 | BenchGuard | 400 | 50 x 0.49 | Roll | 1 |
| BG92 | BenchGuard | 400 | 50 x 0.92 | Roll | 1 |
| BG60 | BenchGuard | 400 | 0.60 x 0.49 | Sheets | 50 |



BenchGuard Extra

- BenchGuard Extra has double the absorbency of standard BenchGuard for use in more demanding applications
- One side plastic coated to prevent soak through
- Available in roll or sheet form
- Rolls supplied in easy to use dispenser packs

| Product Code | Description | Absorption (ml/m²) | Length x Width (m) | Pack Type | Case Qty | |
|-----------------|------------------|-----------------------|-----------------------|--------------|-------------|--|
| BG50E | BenchGuard Extra | 800 | 50 x 0.49 | Roll | 1 | |
| BG60E | BenchGuard Extra | 800 | 0.60 x 0.49 | Sheets | 50 | |

For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com



Bottles

bottles



Bottles, Water Sampling, Polystyrene

- Blow moulded from flexible polystyrene
- Convenient way of sampling both chlorinated and non-chlorinated water for microbiological analysis
- Sterile by gamma irradiation
- Available empty or pre-dosed with sodium thiosulphate
- Dosed bottle (20mg/litre) is suitable for neutralising samples of low chlorinated water
- Dosed versions have the 12 month expiry date clearly printed on each bottle label
 - Colour coded labels allows for easy identification of dosed and undosed samples
 Blue dosed

Green – undosed

- Tamper evident cap for sample integrity
- Lot number for complete traceability

| Product Code | Description | Capacity (ml) | Material | Sterility | Case Qty | |
|-----------------|-----------------|------------------|----------|-----------|-------------|--|
| 500WSC | Bottle, dosed | 500 | PS | IRR | 70 | |
| 500WSCNT | Bottle, undosed | 500 | PS | IRR | 70 | |



Bottles, Water Sampling, PETG

- Manufactured from robust, non-toxic PETG which has excellent clarity
- Octagonal shape facilitates ease of handling, transport and storage
- Available in three sizes 250ml, 500ml, 1000ml
- Sterile by gamma irradiation
- Available empty or pre-dosed with sodium thiosulphate
- Dosed bottle (120mg/litre) conforms to ISO 5667-3 and is suitable for neutralising high chlorinated water, including swimming pools
- Colour coded caps allow for easy identification of dosed and undosed samples Blue – dosed
 - White undosed
- Dosed versions have the 12 month expiry date clearly printed on each bottle
- Tamper evident cap for sample integrity
- Lot number for complete traceability

| Product Code | Description | Capacity (ml) | Cap Colour | Material | Sterility | Case Qty |
|-----------------|-----------------|------------------|------------|----------|-----------|-------------|
| 250PETG | Bottle, dosed | 250 | Blue | PETG | IRR | 152 |
| 250PETGNT | Bottle, undosed | 250 | White | PETG | IRR | 152 |
| 500PETG | Bottle, dosed | 500 | Blue | PETG | IRR | 80 |
| 500PETGNT | Bottle, undosed | 500 | White | PETG | IRR | 80 |
| 1000PETG | Bottle, dosed | 1000 | Blue | PETG | IRR | 60 |
| 1000PETGNT | Bottle, undosed | 1000 | White | PETG | IRR | 60 |



Containers



Containers, Polystyrene, 7ml Bijou

- Ideal for small volume samples
- CE marked in accordance with the European Directive 98/79/EC
- For in vitro use only
- Leakproof tested in accordance with EN14254 Annexe D and BS5213
- Available pre-filled with boric acid (0.09g) for the preservation of urine samples
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene. All materials are non-cytotoxic
- Suitable for centrifugation at 7,200 x g

| Product Code | Description | Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty |
|-----------------|--------------|------------------|---------|-----------------------|-----------|-------------|
| 129A | Container | 7 | No | PS/PE | AS | 700 |
| 129B | Container | 7 | Plain | PS/PE | AS | 700 |
| 129BBAC | Container | 7 | Printed | PS/PE | AS | 700 |
| | + boric acid | | | | | |



Containers, Polystyrene, 7ml Bijou with Coverslip

- Ideal for work on the culture of intracellular organisms (eg. Chlamydia trachomatis, Rickettsia etc)
- Coverslip enables the growth of a monolayer of cells into which the intracellular organism has been infected
- Glass coverslip can be removed for examination/study
- CE marked in accordance with the European directive 98/79/EC
- For in vitro use only
- Small convenient size
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene. All materials are non-cytotoxic

| Product Code | Description | Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty |
|-----------------|-----------------------------|------------------|-------|-----------------------|-----------|-------------|
| 129AX/1 | Container with coverslip | 7 | No | PS/PE | AS | 700 |
| 129BX/1 | Container with coverslip | 7 | Plain | PS/PE | AS | 700 |

Containers, Polystyrene, 30ml Universal

- CE marked in accordance with the European Directive 98/79/EC
- For in vitro use only
- Product is free standing with a conical base ideal for pellet formation
- Unique leak tight cap ensures excellent sample containment. Leak tested in accordance with EN14254 Annexe D and BS5213
- Suitable for centrifugation at 3,800 x g
- Available pre-filled with boric acid (0.4g) for the preservation of urine samples
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene. All materials are non-cytotoxic



| Product Code | Description | Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty | |
|-----------------|-----------------------|------------------|---------|-----------------------|-----------|-------------|--|
| 128A | Container | 30 | No | PS/PP | AS | 400 | |
| 128B | Container | 30 | Printed | PS/PP | AS | 400 | |
| 128C | Container | 30 | Plain | PS/PP | AS | 400 | |
| 128BBAC | Container + boric aci | d 30 | Printed | PS/PP | AS | 400 | |
| | | | | | | | |



See the Technical Information section, page 100 for further information on the European directive 98/79/EC

Packaging systems for the safe transport of all 30ml containers can be found on page 65



For disposable glass universals, please see page 20

For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com



Barloworld Scientific



Containers, Polystyrene, 30ml Universal **(€** + Spoon

- Screw cap with integral spoon ideal for faecal sampling
- CE marked in accordance with the European Directive 98/79/EC
- For in vitro use only
- Unique leak tight cap ensures excellent sample containment. Leak tested in accordance with EN14254 Annexe D and BS5213
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene. All materials are non-cytotoxic

| Product Code | Description (| Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty | |
|-----------------|-----------------------|------------------|---------|-----------------------|-----------|-------------|--|
| 128SA | Container + spoon | 30 | No | PS/PP | AS | 400 | |
| 128SB | Container + spoon | 30 | Printed | PS/PP | AS | 400 | |
| 128SBB | Container, blue + spo | oon 30 | Printed | PS/PP | AS | 400 | |
| 128SC | Container + spoon | 30 | Plain | PS/PP | AS | 400 | |

Containers, Polystyrene, 60ml, 100ml, 150ml, 250ml

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For in vitro use only
- Choice of plastic or metal flow seal cap. Leak tested in accordance with EN14254 Annexe D and BS5213
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene. All materials are non-cytotoxic



Containers, Polystyrene 60ml

| Product Code | Description C | apacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty |
|-----------------|------------------------|-----------------|---------|-----------------------|-----------|-------------|
| 125AM | Container, metal cap | 60 | No | PS/ME | AS | 300 |
| 125BM | Container, metal cap | 60 | Printed | PS/ME | AS | 300 |
| 125CM | Container, metal cap | 60 | Plain | PS/ME | AS | 300 |
| 125AP | Container, plastic cap | 60 | No | PS/PE | AS | 300 |
| 125BP | Container, plastic cap | 60 | Printed | PS/PE | AS | 300 |
| 125CP | Container, plastic cap | 60 | Plain | PS/PE | AS | 300 |

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For details of container dimensions, please see page 102 of the Technical Information section.

CE

Containers, Polystyrene, 100ml

| Product Code | Description | Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty | |
|-----------------|------------------------|------------------|---------|-----------------------|-----------|-------------|--|
| 185AM | Container, metal cap | 100 | No | PS/ME | AS | 200 | |
| 185BM | Container, metal cap | 100 | Printed | PS/ME | AS | 200 | |
| 185CM | Container, metal cap | 100 | Plain | PS/ME | AS | 200 | |
| 185AP | Container, plastic cap | b 100 | No | PS/PE | AS | 200 | |
| 185BP | Container, plastic cap | b 100 | Printed | PS/PE | AS | 200 | |
| 185CP | Container, plastic cap | b 100 | Plain | PS/PE | AS | 200 | |



Containers, Polystyrene, 150ml

| Produc Code | ct Description | Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty |
|----------------|----------------------|------------------|---------|-----------------------|-----------|-------------|
| 165A | Container, metal cap | 150 | No | PS/ME | AS | 120 |
| 165B | Container, metal cap | 150 | Printed | PS/ME | AS | 120 |
| 165C | Container, metal cap | 150 | Plain | PS/ME | AS | 120 |



Containers, Polystyrene, 250ml

| Product Code | Description | Capacity (ml) | Label | Materials Base/Cap | Sterility | Case Qty |
|-----------------|----------------------|------------------|---------|-----------------------|-----------|-------------|
| 190A | Container, metal cap | 250 | No | PS/ME | AS | 50 |
| 190B | Container, metal cap | 250 | Printed | PS/ME | AS | 50 |
| 190C | Container, metal cap | 250 | Plain | PS/ME | AS | 50 |





Sterilin[®] polystyrene containers are also available:

- Gamma irradiated
- Tray packed

(i)

Please contact our customer service department for further details





Container, Polystyrene, Mucus Extractor

CE

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- For obtaining a mucus specimen for microbiological examination. Also suitable for the aspiration of secretions from oropharynx in newborn babies to assist trouble free respiration
- CE marked in accordance with the European Directive 93/42/EC for medical devices
- Suction tube length of 202mm
- Manufactured from materials suitable for medical use
- Leak free cap is included to enable safe transportation to the laboratory for analysis or for safe disposal
- Supplied sterile by gamma irradiation in individual peel pouch
- Lot number and expiry date on each individual pouch ensures complete traceability
- Funnel shaped adapter at the proximal end of suction tube for simple and secured connection

| Product Code | Description | Capacity (ml) | Label | Sterility | Case Qty |
|-----------------|-----------------|------------------|---------|-----------|-------------|
| MP52 | Mucus extractor | 30 | Printed | IRR | 100 |



Containers, Polystyrene, Non-Pyrogenic

- Suitable for the storage of samples, formulation work, sterility testing and endotoxin testing
- Certified endotoxin free to levels below 0.01EU/ml (Limulus Amoebocyte Lysate (LAL) test)
- In vitro use only
- Supplied sterile by gamma irradiation
- Leak tested in accordance with EN14254 Annexe D and BS5213
- Lot number on each container label and test certificate supplied for each lot

| Product Desc Code | ription (| Capacity (ml) | Label | Materials Base/Cap | · · · · · · · · · · · · · · · · · · · | Case Qty |
|----------------------|---------------------|------------------|---------|-----------------------|---------------------------------------|-------------|
| 129PYR Conta | iner, Non-Pyrogenic | 7 | Printed | PS/PE | IRR | 700 |
| 128PYR Conta | iner, Non-Pyrogenic | 30 | Printed | PS/PP | IRR | 400 |
| 125PYR Conta | iner, Non-Pyrogenic | 60 | Printed | PS/ME | IRR | 300 |
| 185PYR Conta | iner, Non-Pyrogenic | 100 | Printed | PS/ME | IRR | 200 |
| 165PYR Conta | iner, Non-Pyrogenic | 150 | Printed | PS/ME | IRR | 120 |
| 190PYR Conta | iner, Non-Pyrogenic | 250 | Printed | PS/ME | IRR | 50 |



The test procedure is validated in accordance with the EU, USP and USFDA guidelines where the principal aim is to demonstrate that the product or the sample does not inhibit or enhance the LAL reaction



Containers, Polystyrene, Double-Bagged (E

- Ideal for use in hospital theatres to facilitate a sterile transfer of product
- Each container is double wrapped with two 'easy tear' bags
- In vitro use only
- Gamma irradiated with an irradiation dot on each unit to ensure complete sterility
- CE marking denotes compliance with the European Directive 98/79/EC

| Product Code | Description | Capacity (ml) | Label | Material Base/Cap | Sterility | Case |
|-----------------|--------------------------|------------------|-------|----------------------|-----------|------|
| 128DB/IRR | Container, double bagged | 30 | Plain | PS/PP | IRR | 150 |
| 185DB/IRR | Container, double bagged | 100 | Plain | PS/ME | IRR | 80 |
| 190DB/IRR | Container, double bagged | 250 | Plain | PS/ME | IRR | 40 |



Method of use;



1. Each container is supplied double wrapped and irradiated. An irradiation dot is affixed to each inner bag confirming complete sterility



2. The outer bag can be opened in the non-sterile environment by carefully tearing along the line as directed. The inner bag can easily be pulled from the outer bag by staff within the sterile operating area ensuring a 'sterile' transfer from one area to the next.



3. The container can then be removed from the second bag within the sterile operating environment

Containers, Polypropylene, Screw Cap

- Designed specifically for sampling within the food and industrial laboratories.
- Manufactured from shatterproof polypropylene for maximum safety
- Available in a range of colour combinations for ease of identification
- Will surface when dropped into aqueous solutions
- Deep threaded cap to ensure sample containment
- Extensive range from 30ml to 250ml
- Aseptically manufactured

Containers, Polypropylene, 30ml

| Product Code | Description | Capacity (ml) | Label | Colour Base/Cap | Materials Base/Cap | Sterility | Case Qty | |
|-----------------|------------------------|------------------|--------------------|---------------------------|-----------------------|-----------|--------------|--|
| | Container Container | | Printed Printed | Clear/White Clear/Blue | | AS AS | 1000 1000 | |





Containers, Polypropylene, 40ml

| Product Code | Description | Capacity (ml) | Label | Colour Base/Cap | Materials Base/Cap | Sterility | Case Qty |
|-----------------|-------------|------------------|-------|--------------------|-----------------------|-----------|-------------|
| LXP40 | Container | 40 | None | Clear/White | PP/PE | AS | 1000 |
| LXP40L | Container | 40 | Plain | Clear/White | PP/PE | AS | 1000 |
| LXP40LB | Container | 40 | Plain | Clear/Blue | PP/PE | AS | 1000 |
| LXPB40 | Container | 40 | None | Blue/Blue | PP/PE | AS | 1000 |

containers - disposable polypropylene



| Product Code | Description Ca | pacity (ml) | Label | Colour Base/Cap | Materials Base/Cap | Sterility | Case Qty |
|-----------------|----------------|----------------|-------|--------------------|-----------------------|-----------|-------------|
| LXP60 | Container | 60 | None | Clear/White | PP/PE | AS | 700 |
| LXP60L | Container | 60 | Plain | Clear/White | PP/PE | AS | 700 |
| LXP60R | Container | 60 | None | Clear/Red | PP/PE | AS | 700 |
| LXP60LR | Container | 60 | Plain | Clear/Red | PP/PE | AS | 700 |
| LXPB60 | Container | 60 | None | Blue/Blue | PP/PE | AS | 700 |
| LXPB60L | Container | 60 | Plain | Blue/Blue | PP/PE | AS | 700 |
| LXPR60L | Container | 60 | Plain | Red/Red | PP/PE | AS | 700 |



Containers, Polypropylene, 125ml

| Product Code | Description | Capacity (ml) | Label | Colour Base/Cap | Materials Base/Cap | Sterility | Case Qty |
|-----------------|-------------|------------------|-------|--------------------|-----------------------|-----------|-------------|
| LXP125 | Container | 125 | None | Clear/White | PP/PE | AS | 380 |
| LXP125L | Container | 125 | Plain | Clear/White | PP/PE | AS | 380 |
| LXP125R | Container | 125 | None | Clear/Red | PP/PE | AS | 380 |
| LXP125B | Container | 125 | None | Clear/Blue | PP/PE | AS | 380 |
| LXP125LB | Container | 125 | Plain | Clear/Blue | PP/PE | AS | 380 |
| LXPR125 | Container | 125 | None | Red/Red | PP/PE | AS | 380 |
| LXPB125L | Container | 125 | Plain | Blue/Blue | PP/PE | AS | 380 |



Containers, Polypropylene, 180ml

| Product Code | Description | Capacity (ml) | Label | Colour Base/Cap | Materials Base/Cap | Sterility | Case Qty |
|-----------------|-------------|------------------|-------|--------------------|-----------------------|-----------|-------------|
| LXP180 | Container | 180 | None | Clear/White | PP/PE | AS | 264 |
| LXP180L | Container | 180 | Plain | Clear/White | PP/PE | AS | 264 |
| LXP180R | Container | 180 | None | Clear/Red | PP/PE | AS | 264 |
| LXP180LR | Container | 180 | Plain | Clear/Red | PP/PE | AS | 264 |
| LXP180LB | Container | 180 | Plain | Clear/Blue | PP/PE | AS | 264 |
| LXPB180 | Container | 180 | None | Blue/Blue | PP/PE | AS | 264 |
| LXPB180L | Container | 180 | Plain | Blue/Blue | PP/PE | AS | 264 |
| LXPR180L | Container | 180 | Plain | Red/Red | PP/PE | AS | 264 |



containers - disposable polypropylene



Container, Polypropylene, 250ml

| Product Code | Description Ca | apacity (ml) | Label | Colour Base/Cap | Materials Base/Cap | Sterility | Case Qty |
|-----------------|----------------------|-----------------|-------|--------------------|-----------------------|-----------|-------------|
| 193A | Container, metal cap | 250 | None | Natural | PP/ME | AS | 50 |



Containers, Polypropylene, Hinged Lid

- Ideal for industrial sample collection, transport, storage and analysis
- Hinged lid for convenient handling designed to stay vertical when opened
- Aseptically manufactured
- Shatter-proof polypropylene, offering maximum safety for food industry applications
- Available in natural and the food industry standard of blue
- Autoclavable at 121°C with lid open
- Frosted writing area for sample identification
- Will surface if dropped into a vat of aqueous liquid
- Graduation marks for volume estimation:

45ml container – graduation mark at 40ml

50ml container – graduations every 10ml to 50ml

90ml container – graduation mark at 80ml

300ml container - graduations every 25ml to 275ml and 1oz graduations to 9oz

| Product Code | Description | Capacity (ml) | Colour | Material | Sterility | Case Qty |
|-----------------|-----------------------|------------------|---------|----------|-----------|-------------|
| 52FLS | Container, hinged lid | 45 | Natural | PP | AS | 650 |
| 52FLPLS | Container, hinged lid | 45 | Blue | PP | AS | 650 |
| 60FLS | Container, hinged lid | 50 | Natural | PP | AS | 650 |
| 60FLPLS | Container, hinged lid | 50 | Blue | PP | AS | 650 |
| 100FLS | Container, hinged lid | 90 | Natural | PP | AS | 350 |
| 100FLPLS | Container, hinged lid | 90 | Blue | PP | AS | 350 |
| 300FLS | Container, hinged lid | 300 | Natural | PP | AS | 240 |
| 300FLPLS | Container, hinged lid | 300 | Blue | PP | AS | 240 |

containers - disposable polypropylene



- Ideal for sampling applications in industrial laboratories
- Manufactured from shatter-proof polypropylene offers maximum safety for food industry applications
- Conical profile enables stacking
- Available either sterile or non-sterile
- Will surface if dropped into a vat of aqueous liquid
- Graduation marks for volume estimation:
 - 200ml container 25ml graduations to 200ml
 - 400ml container 50ml graduations to 400ml
 - 960ml container 100ml graduations to 1000ml

| Product Code | Description | Capacity (ml) | Overall Height (mm) | Materials Base/Cap | Sterility | Case Qty | |
|------------------|--|------------------|---------------------------|-----------------------|-----------|-------------|--|
| 200PPN 201PPN | Container only Container, cap, unassembled | 200 200 | 87 87 | PP PP/PE | NS NS | 660 660 | |
| 202PPI | Container, cap, assembled | 200 | 88 | PP/PE | IRR | 220 | |
| 400PPN | Container only | 400 | 100 | PP | NS | 460 | |
| 401PPN | Container, cap, unassembled | 400 | 100 | PP/PE | NS | 460 | |
| 402PPI | Container, cap, assembled | 400 | 101 | PP/PE | IRR | 185 | |
| 1000PPN | Container only | 960 | 130 | PP | NS | 250 | |
| 1001PPN | Container, cap, unassembled | 960 | 130 | PP/PE | NS | 250 | |
| 1002PPI | Container, cap, assembled | 960 | 131 | PP/PE | IRR | 120 | |

Container, 24 Hour Urine Used to help evaluate kidney function – 24 hour sample enables most accurate results

- CE marked in accordance with the European Directive 98/79/EC
- In vitro use only
- Manufactured from HDPE for strength and stability when full
- Convenient carrying handle
- 2.5 litres capacity and translucent nature to enable fluid level to be assessed
- Labelled for patient details and approximate graduations (500ml to 2,000ml)
- Wadded screw cap for sample containment
- Wide neck (31mm) for ease of filling

| Product Code | Description | Capacity (L) | Label | Material Base/Cap | Sterility | Case Qty |
|-----------------|-------------|-----------------|---------|----------------------|-----------|-------------|
| 58909 | Container | 2.5 | Printed | HDPE/PE | NS | 50 |



Not pre-filled with urine preservative





(6

containers - disposable glassware



Container, Glass, 7ml Bijou

- Ideal for small volume samples
- Glass construction offers superior chemical resistance
- Tray packed for safety and convenience
- For in vitro use only

| Product Code | Description Ca | pacity (ml) | Label | Material Base/Cap | | Case Qty |
|-----------------|-----------------|----------------|-------|----------------------|----|-------------|
| 39503T | Glass Container | 7 | No | G/PP | NS | 360 |



Container, Glass, 30ml Universal

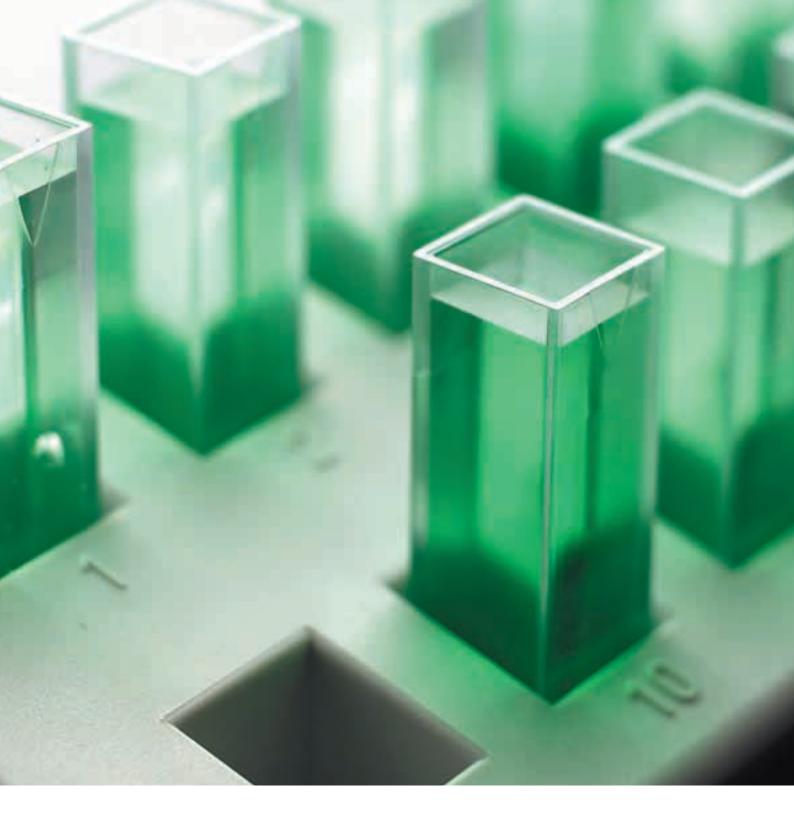
- Ideal for applications where there is a requirement for high chemical resistance
- Tray packed for safety and convenience
- For in vitro use only

| | Product Code | Description | Capacity (ml) | Label | Material Base/Cap | Sterility | Case Qty |
|---|-----------------|-----------------|------------------|-------|----------------------|-----------|-------------|
| l | JC/30 | Glass container | 30 | No | G/PP | NS | 500 |



Please note that the above glassware is manufactured from Soda glass and therefore it is recommended that the product is not autoclaved

For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com



Cuvettes

cuvettes



Cuvettes

- Suitable for use with most spectrophotometers for water analysis, chemistry and life science applications
- Choice of material:
 - Optical quality polystyrene for use at visible wavelengths (340 to 900nm)
- Optical quality acrylic (PMMA) for use at ultra violet wavelengths (300 to 900nm)
- Each case contains cuvettes from the same mould cavity to ensure minimal dimensional variation. Standard absorption variation between cuvettes is better than +/- 0.005 absorbency units
- Two sizes available semi-micro cuvette and macro cuvette
- Standard path length of 10mm
- Frosted sides on the cuvette provide an ideal labelling and handling area
- Recessed windows reduce the risk of scratching during use
- For ease of use an arrow feature indicates the direction of light transmission
- Packed in expanded polystyrene (EPS) foam trays for optimum protection ensuring scratch free product at the time of use

| Product Code | t Description | Capacity (ml) | Window Width x Height (mm) | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--|------------------------|----------------------------------|--------------|-----------|----------------------|-------------|
| 221M 221S | Macro cuvette Semi-micro cuvette | 2.5 - 4.5 1.5 - 3.0 | 10 x 32.5 4.5 x 22 | PS PS | NS NS | 100 100 | 500 500 |
| 222M 222S | Macro cuvette Semi-micro cuvette | 2.5 - 4.5 1.5 - 3.0 | 10 x 32.5 4.5 x 22 | PMMA PMMA | NS NS | 100 100 | 500 500 |



For more information on the definition of 'cuvettes from the same mould cavity' and the chemical resistance of the cuvettes, refer to page 103 of the Technical Information Section.



Cuvette Rack

- Facilitates the handling and preparation of cuvettes
- Holds 20 cuvettes in numbered positions
- Manufactured from polypropylene to withstand sterilisation

| Product Code | Description | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------|----------|-----------|----------------------|-------------|
| 220R | Cuvette Rack | PP | NS | 1 | 1 |



Dippers

dippers



Dippas[®], Polystyrene

- Facilitates sample collection and subsequent transportation to the laboratory in a single container, with no risk of cross contamination
- Handle neatly snaps off after sample collection for ease of transportation
- Individually wrapped and gamma irradiated to ensure sterility
- Supplied with a 'flow-seal' screw cap, tested in accordance with EN 14254 Annex D and BS5213 for a leak tight seal
- Available in either clear polystyrene or in the food industry standard of blue
- A choice of handle length to accommodate the majority of sampling applications

| Product Code | Description (| Capacity (ml) | Colour | Handle Length (mm) | Material Base/Cap | Sterility | Case Qty |
|--|--|--------------------------------------|---|--|--|---------------------------------|------------------------------------|
| 191 191BLUE 194IW 194IWBLUE 192 192BLUE | Dippa, screw cap Dippa, screw cap Dippa, screw cap Dippa, screw cap Dippa, screw cap Dippa, screw cap | 30 30 100 100 250 250 | Clear Blue Clear Blue Clear Blue | 191 191 383 383 334 334 | PS/PP PS/PP PS/ME PS/ME PS/ME PS/ME | IRR IRR IRR IRR IRR | 50 50 100 100 50 50 |



Dippers, Polypropylene

- For the sterile collection and transportation without the risk of contamination
- Manufactured from shatterproof polypropylene
 - Individually wrapped and gamma irradiated to ensure sterility
- Handles are detachable after sample has been collected
- Choice of screw-cap or hinged lid

| Product Code | Description | Capacity (ml) | Colour | Handle Length (mm) | Material Base/Cap | Sterility | Case Qty |
|-----------------|--------------------|------------------|--------|--------------------------|----------------------|-----------|-------------|
| 195PPD | Dipper, screw cap | 40 | Blue | 220 | PP/PE | IRR | 250 |
| 200PPD | Dipper, hinged cap | 45 | Blue | 220 | PP/PP | IRR | 250 |
| 205PPD | Dipper, hinged cap | 90 | Blue | 220 | PP/PP | IRR | 150 |
| 210PPD | Dipper, screw cap | 125 | Blue | 220 | PP/PE | IRR | 100 |
| 215PPD | Dipper, screw cap | 180 | Blue | 220 | PP/PE | IRR | 100 |

For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com



Jars

jars



Jars, Screw Cap, Non Sterile

Multi-use disposable jars – ideal for liquid, solid, food and histology samples

CE

CE

- Wide neck enables bulk, one piece specimens to be stored easily
- Suitable for direct transfer of specimen from patient to jar
- Plastic wadded cap
- CE marked in accordance with the European Directive 98/79/EC

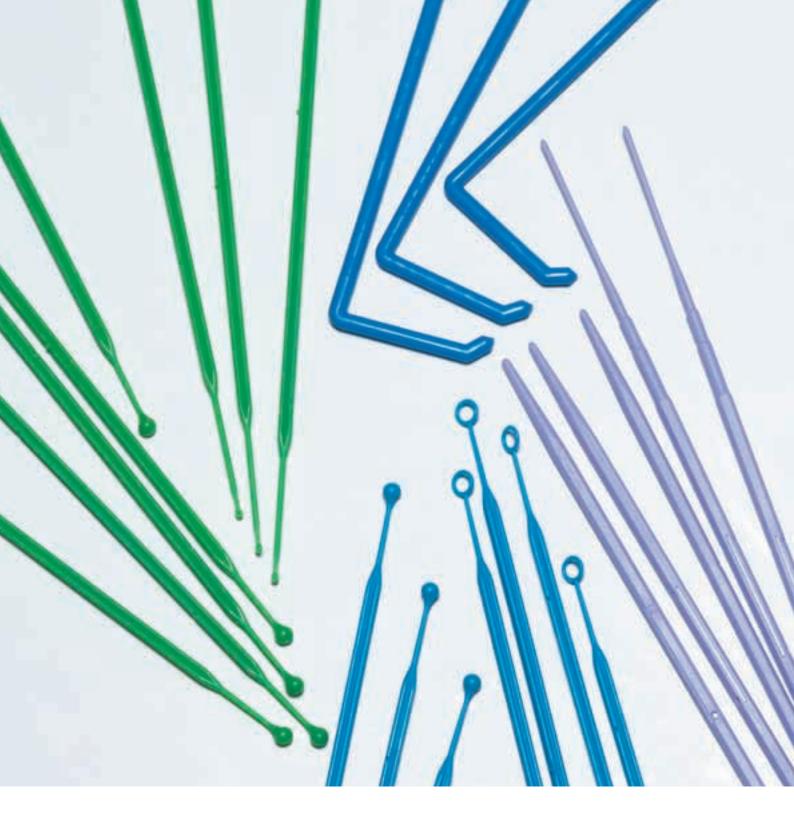
| Product Code | Description | Capacity (ml) | Label | O.H. x O.D. (mm) | Material Jar/Cap | Sterility | Case Qty |
|-----------------|----------------|------------------|---------|---------------------|---------------------|-----------|-------------|
| 28308 | Jar, screw cap | 30 | None | 48 x 35 | PS/UREA | NS | 200 |
| 28340 | Jar, screw cap | 60 | None | 62 x 43 | PS/UREA | NS | 200 |
| 28381 | Jar, screw cap | 120 | None | 72 x 54 | PS/UREA | NS | 100 |
| 28423 | Jar, screw cap | 230 | None | 82 x 69 | PS/UREA | NS | 100 |
| 28464 | Jar, screw cap | 350 | None | 90 x 80 | PS/UREA | NS | 100 |
| 28316 | Jar, screw cap | 30 | Printed | 48 x 35 | PS/UREA | NS | 200 |
| 28357 | Jar, screw cap | 60 | Printed | 62 x 43 | PS/UREA | NS | 200 |
| 28399 | Jar, screw cap | 120 | Printed | 72 x 54 | PS/UREA | NS | 100 |
| 28431 | Jar, screw cap | 230 | Printed | 82 x 69 | PS/UREA | NS | 100 |
| 28472 | Jar, screw cap | 350 | Printed | 90 x 80 | PS/UREA | NS | 100 |

NEW

Jars, Screw Cap, Sterile

- Multi-use disposable jars ideal for liquid, solid, food and histology samples
- Sterilised by gamma irradiation
- Wide neck enables bulk, one piece specimens to be stored easily
- Suitable for direct transfer of specimen from patient to jar
- Plastic wadded cap
- CE marked in accordance with the European Directive 98/79/EC

| Product Code | Description | Capacity (ml) | Label | O.H. x O.D. (mm) | Material Jar/Cap | Sterility | Case Qty |
|-----------------|----------------|------------------|---------|---------------------|---------------------|-----------|-------------|
| 28324 | Jar, screw cap | 30 | None | 48 x 35 | PS/UREA | IRR | 200 |
| 28365 | Jar, screw cap | 60 | None | 62 x 43 | PS/UREA | IRR | 200 |
| 28407 | Jar, screw cap | 120 | None | 72 x 54 | PS/UREA | IRR | 100 |
| 28449 | Jar, screw cap | 230 | None | 82 x 69 | PS/UREA | IRR | 100 |
| 28480 | Jar, screw cap | 350 | None | 90 x 80 | PS/UREA | IRR | 100 |
| 28332 | Jar, screw cap |) 30 | Printed | 48 x 35 | PS/UREA | IRR | 200 |
| 28373 | Jar, screw cap | 60 | Printed | 62 x 43 | PS/UREA | IRR | 200 |
| 28415 | Jar, screw cap | 120 | Printed | 72 x 54 | PS/UREA | IRR | 100 |
| 28456 | Jar, screw cap | 230 | Printed | 82 x 69 | PS/UREA | IRR | 100 |
| 28498 | Jar, screw cap | 350 | Printed | 90 x 80 | PS/UREA | IRR | 100 |



Inoculating loops, needles and spreaders

inoculating loops, needles and spreaders



Loops, Inoculating with needle

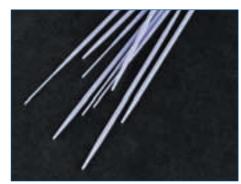
- For dilution streaking and obtaining isolated colonies
- Features a fixed volume loop at one end and a needle for colony extraction at the other
- Accuracy of +/- 20% certified using Evans Blue Dye Method. Certificate of calibration in every case
- No rough edges on the loop head means smooth, problem free plating and streaking of cultures
- Choice of rigid or flexible loops to suit different applications and user preferences.
- Free of lubricants, oils and electrostatic charges to facilitate consistent wetting and complete liquid transfer
- Hexagonal shaft improves grip and assists orientation

| Product | Description | Volume (µl) | Colour | Sterility | Inner Pack Qty | Case Qty |
|---------|-----------------------|----------------|------------|-----------|----------------------|-------------|
| SL1H | Inoculating loop, har | rd 1 | Dark green | IRR | 10 | 800 |
| SL1S | Inoculating loop, sof | t 1 | Pale green | IRR | 10 | 800 |
| SL10H | Inoculating loop, har | d 10 | Dark blue | IRR | 10 | 800 |
| SL10S | Inoculating loop, sof | t 10 | Pale blue | IRR | 10 | 800 |

Loops, Inoculating with sphere

- Used in microbiological applications for dilution streaking and obtaining isolated colonies
- Inoculation loop for fixed sample volumes at one end and sphere for streaking at the other
- By turning the square handle 90° after each streaking, the sphere provides up to four sterile streaking surfaces
- Eliminates the need for flaming and subsequent risk of aerosols

| Product Code | Description | Volume (µl) | Colour | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------------------|----------------|--------|-----------|----------------------|-------------|
| QL1 | Inoculating loop with sphere | 1 | Green | IRR | 20 | 1000 |
| QL10 | Inoculating loop with sphere | 10 | Blue | IRR | 20 | 1000 |





Needles

- Ideal for picking off individual colonies within mixed cultures growing on plated media
- Suitable for making stab inoculations into agar slants or tubes of solid culture media

| Produ Code | | Colour | Length (mm) | Sterility | Inner Pack Qty | Case Qty | |
|---------------|--------------------|--------|----------------|-----------|----------------------|-------------|--|
| SN20 | Inoculation needle | Violet | 198 | IRR | 20 | 1000 | |

Spreaders

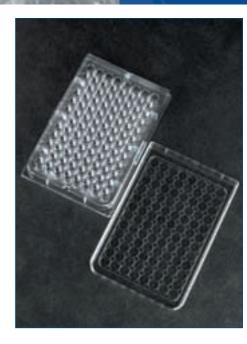
- Designed for spreading and dispersing liquids across the surface of agar culture plates
- L-shaped with smooth rounded surfaces to prevent gouging of agar during inoculation

| Product Code | Description | Colour | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-------------------|--------|-----------|----------------------|-------------|--|
| SPCS01 | L-shaped spreader | Blue | IRR | 1 | 500 | |
| SPCS05 | L-shaped spreader | Blue | IRR | 5 | 1000 | |



Microtitre Plates

microtitre plates



Microtitre Plates, Clear

- Used for serology work, microbiology screening, EIA/absorbance assays, sample storage and transport
- Manufactured from virgin polystyrene giving excellent optical clarity
- No surface treatment, thus providing a medium binding surface
- CE marked in accordance with European Directive 98/79/EC
- Compatible with automated plate readers and washers
- Suitable for use at a wavelength of 340nm
- Condensation rings on the lid, together with raised well rims on the base, help minimise the risk of contamination from surrounding wells

CE

- Orientation corners and alpha numeric labelling ensure easy sample identification
- Frosted write-on area on end wall of plate for clear identification
- Hanging well design ensures even temperature distribution around each well

| Product Code | Description | Well Capacity (µl) | Mate | erial Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------------------------------|--------------------------|------|-----------------|----------------------|-------------|--|
| 611U96 | 96 well plate, U bottom | 330 | PS | NS | 5 | 50 | |
| 611V96 | 96 well plate, V bottom | 310 | PS | NS | 5 | 50 | |
| 611F96 | 96 well plate, Flat bottom | 400 | PS | NS | 5 | 50 | |
| 612U96 | 96 well plate, U bottom, sterile | 330 | PS | IRR | 1 | 50 | |
| 612V96 | 96 well plate, V bottom, sterile | 310 | PS | IRR | 1 | 50 | |
| 612F96 | 96 well plate, Flat bottom, steri | le 400 | PS | IRR | 1 | 50 | |
| 642000 | Lid for microtitre plate | - | PS | IRR | 1 | 50 | |



Multiwell plates for tissue culture applications can be found on page 78

Information on the CE directive can be found on page 100 of the Technical Information section

Microtitre Plates, Black

- Ideal for fluorescence work where the black pigment prevents 'cross-talk' between the wells
- Low background fluorescence minimises light scattering
- No surface treatment, thus providing a medium binding surface
- Chimney well design to help reduce contamination

| Product Code | Description C | Well Capacity (µl) | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------------------|--------------------------|----------|-----------|----------------------|-------------|
| 11F96BK | Black 96 well plate,Flat bottom | n 400 | PS | NS | г | 50 |

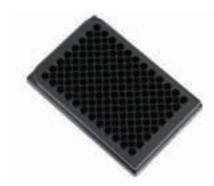
Microtitre Plates, White

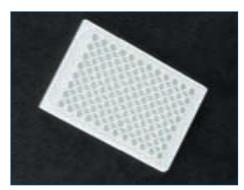
- Ideal for bioluminescence studies where the white pigment aid reflectivity and sensitivity and prevents well to well cross-talk
- No surface treatment, thus providing a medium binding surface
- Chimney well design to help reduce contamination

| Product Code | Description Cap | Well bacity (µl) | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------------------|------------------------|----------|-----------|----------------------|-------------|
| 611F96WT | White 96 well plate,Flat bottom | 400 | PS | NS | 5 | 50 |



For details on selecting the correct type of plate for your application refer to page 104 the Technical Information section







Petri Dishes



Petri Dishes, 30mm, 50mm, 55mm, 60mm

- Ideal for use when savings in media or incubator space are required
- 55mm dish accommodates 47mm membrane filters making it suitable for water testing
- 50mm deep form dish (product code 124) is over 20mm deep and designed for use with liquid media
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination

| Product Code | Description | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|--------------------------------|--------|-----------|-------------------------|----------------------|-------------|
| 121V | Petri dish, 30mm | Triple | AS | 35 x 11 | 10 | 800 |
| 122 | Petri dish, 50mm | Single | AS | 52 x 14.5 | 10 | 700 |
| 124 | Petri dish, 50mm, deep form | Single | AS | 50 x 20.3 | 20 | 500 |
| PF55 | Petri dish, 55mm | None | AS | 55.5 x 12 | 15 | 1620 |
| PF55V | Petri dish, 55mm | Triple | AS | 55.5 x 12 | 15 | 1620 |
| 123 | Petri dish, 60mm | Single | AS | 60 x 15.1 | 10 | 540 |



Petri Dishes, 90mm, Standard

CE

- Used by microbiologists to culture micro-organisms on solid media
- Available either:
 - Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination
- Terminally sterilised by gamma irradiation
- CE marked in accordance with European Directive 98/79/EC
- In vitro use only
- Produced and tested in accordance with the BS611 part 2 standard, which includes stringent dimensional controls
- Ideal for use in automatic plate pourers
- Available in single, triple and non-vented formats
- Triple vented aids gaseous exchange. Ideally suited for short term work
- Single vented limits gaseous exchange, minimises evaporation and dehydration. Ideally suited for long term work
- Non-vented most suitable for anaerobic and long term work
- Manufactured from virgin polystyrene
- Mirror finished moulds ensure high optical clarity

| Product Code | Description | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|-------------------|--------|-----------|-------------------------|----------------------|-------------|
| 101R20 | Petri dish, 90 mm | Single | AS | 89.25 x 16.0 | 20 | 500 |
| 101/IRR | Petri dish, 90 mm | Single | IRR | 89.25 x 16.0 | 20 | 500 |
| 101VR20 | Petri dish, 90 mm | Triple | AS | 89.25 x 16.2 | 20 | 500 |
| 101V/IRR | Petri dish, 90 mm | Triple | IRR | 89.25 x 16.2 | 20 | 500 |
| 101RT | Petri dish, 90 mm | None | AS | 89.25 x 15.8 | 20 | 500 |
| 101RT/IRR | Petri dish, 90 mm | None | IRR | 89.25 x 15.8 | 20 | 500 |



Training aids for teaching essential microbiology techniques are detailed on page 36

See Technical Information section;

page 105 for information on aseptic manufacture

page 104 for information on the BS611 part 2 standard

CE

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Petri Dishes, 90mm, Triple Bagged

- Ideal for use in dedicated areas where the sterile transfer of product is essential
- In vitro use only

i

- Innermost bag carries an irradiation dot to confirm sterility and batch number to ensure traceability
- Batch specific certificate inside each carton

| Product Code | Description | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|--------------------|--------|-----------|-------------------------|----------------------|-------------|
| 101VR05T | B Petri dish, 90mm | Triple | IRR | 89.25 x 16.2 | 5 | 375 |
| 101VR18T | B Petri dish, 90mm | Triple | IRR | 89.25 x 16.2 | 18 | 450 |
| 501VTB | Petri dish, 140mm | Triple | IRR | 138.9 x 21.1 | 9 | 72 |

Note that this range is manufactured to order and minimum order quantities apply

Please contact our customer service department for details

Petri Dishes, 90mm, Coloured

- Aids ease of identification, especially suitable for identification of group work within teaching laboratories
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination
- Manufactured using cadmium free non-cytotoxic colourants
- In vitro use only
- Produced and tested in accordance with the BS611 part 2 standard

| Product Code | Description | Colour | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|------------------|--------|--------|-----------|-------------------------|----------------------|-------------|
| 101VAMB | Petri dish, 90mm | Amber | Triple | AS | 89.25 x 16.2 | 20 | 500 |
| 101VBLUE | Petri dish, 90mm | Blue | Triple | AS | 89.25 x 16.2 | 20 | 500 |
| 101VRED | Petri dish, 90mm | Red | Triple | AS | 89.25 x 16.2 | 20 | 500 |

Petri Dishes, 90mm, Compartmented

- Ideal for use with different media or when savings in media / incubator space are required
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination
- CE marked in accordance with the European Directive 98/79/EC
- In vitro use only
- Manufactured to BS 611 part 2

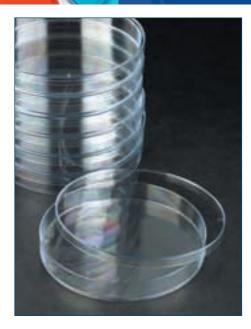
| Product Code | Description | Compartments | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|---------------------|--------------|--------|-----------|-------------------------|----------------------|-------------|
| 502V | Petri dish, 90mm | 2 | Triple | AS | 89.25 x 16.2 | 20 | 500 |
| 503V | Petri dish, 90mm | 3 | Triple | AS | 89.25 x 16.2 | 20 | 500 |











Petri Dish, 140mm

- Ideal for applications where a large surface area and very flat base are required
- Easy grip ridges on the base to aid individual dish handling
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination
- Produced and tested in accordance with the BS611 part 2 standard, which includes stringent dimensional controls
- Ideal for use in automatic plate pourers

| Product Code | Description | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|-------------------|--------|-----------|-------------------------|----------------------|-------------|
| 501V | Petri dish, 140mm | Triple | AS | 138.9 x 21.1 | 10 | 80 |



Petri Dishes, 100mm, Square

- Non compartmentalised dish is ideal for antibiotic sensitivity testing, when a large surface area and very flat base is required
 - Compartmentalised dish is ideal for small volume liquid media work or for sample storage - the 25 compartments each have a surface area of 1.8cm² and capacity of 5ml - the lid features selectable venting or non-venting positions *
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination

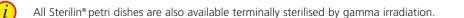
| Product Code | Description | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|--------------------|-------|-----------|-------------------------|----------------------|-------------|
| 109 | Petri dish, 100mm | None | AS | 101.6 x 21.1 | 4 | 120 |
| 103 | Petri dish, 100mm, | * | AS | 101.0 x 20.8 | 4 | 120 |
| | 25 compartment | | | | | |

* Lid turns through 90° to allow for venting or non-venting of the dish

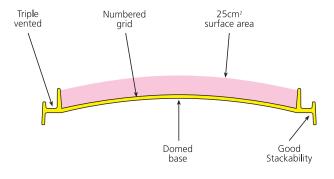
Petri Dish, 55mm, Contact Plate

- Ideal for use in routine hygiene monitoring of surfaces
- Concave profile of the dish raises the profile of the media when set giving better contact between the agar bed and surface under test
- 25cm² surface area conforms to both the Institute of Environmental Sciences (IES, 1993) and the International Pharmaceutical Federation (I.P.F., 1990) Standards
- Aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination
- Triple vented aids gaseous exchange
- Numbered grid on the base facilitates colony counting
- Deep skirted base aids stability when stacked

| Product Code | Description | Vents | Sterility | Base OD x OH (mm) | Inner Pack Qty | Case Qty |
|-----------------|---------------------|--------|-----------|-------------------------|----------------------|-------------|
| 504 | Contact Plate, 55mm | Triple | AS | 67 x 10.4 | 10 | 300 |



Please contact or customer service department for further details

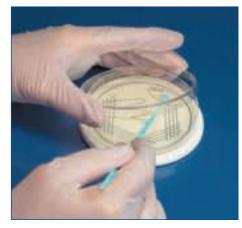


For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com





Guide-Plate 1



Guide-Plate 2

Microbiological Training Aid

- Invaluable training aid for new entrants into the microbiology laboratory
- Ensures consistency and good quality laboratory practice
- Consists of two re-usable templates:

Guide-Plate 1 - used to help achieve consistency of volumes of agar poured into Petri dishes

Guide-Plate 2 - ideal for teaching and improving streaking and spreading techniques. A clear traceable five-point streak pattern enables single colony isolation

- Complete with comprehensive instruction manual
- Locating grooves around the rim of the G-Plates secures the Petri dish in place during the procedure
- Manufactured from easy to clean polypropylene

| Product Code | Description | Case Qty |
|-----------------|--|-------------|
| G-PLATE | Guide plates (G-Plate 1, G-Plate 2 and instruction manual) | 1 Pack |

Developed in conjunction with microbiologist Dr Chris Bell

 \dot{l} Only suitable for use with Sterilin[®] 90mm Petri dishes



Counting colonies ? See the Stuart Colony Counter on page 92 of this catalogue



Pipettes

Pipettes, Serological

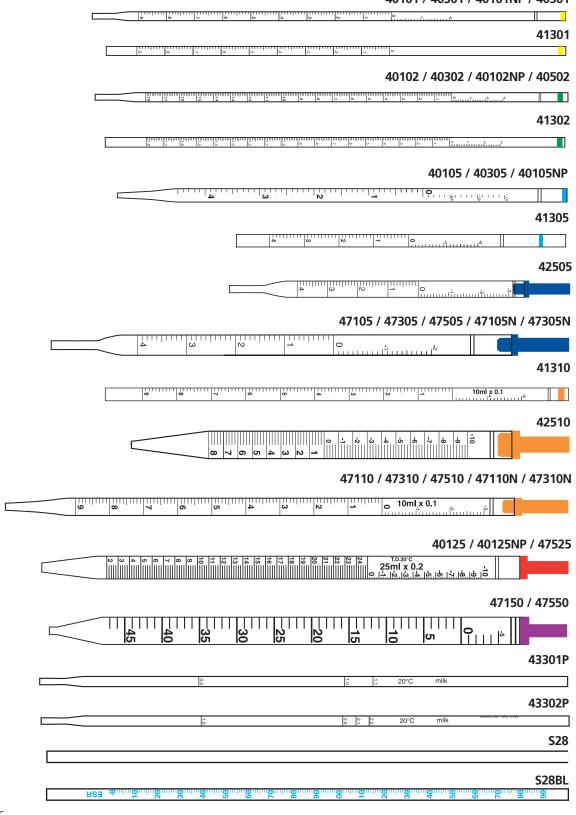
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Sterilin single use, serological pipettes are manufactured using virgin grade polystyrene and to stringent quality specifications. All pipettes in our extensive range carry the following features:

- Gamma irradiated to ensure sterility and certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of +/-1% for nominal volume

- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour coded for ease of identification

40101 / 40301 / 40101NP / 40501



Pipettes, Bulk Packed, Plugged

Bulk packed in convenient shelf packs

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty | |
|-----------------|---------------|---------------------------------|---------------------------|-----------|----------------------|-------------|--|
| 40301K | 1ml pipette | -0.2 | 279 | IRR | 50 | 1000 | |
| 40302K | 2ml pipette | -0.3 | 279 | IRR | 50 | 1000 | |
| 47305 | 5ml pipette | -2.0 | 298 | IRR | 25 | 200 | |
| 47310 | 10ml pipette | -3.0 | 333 | IRR | 25 | 500 | |
| 40305 | 5ml pipette * | · -1.5 | 275 | IRR | 25 | 200 | |

* Without suction adapter



Pipettes, Individually Wrapped, Plastic Film Packaging, Plugged

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Inner Pack Qty | Shelf Pack Qty | Case Qty |
|-----------------|---------------|---------------------------------|---------------------------|-----------|----------------------|----------------------|-------------|
| 40101K | 1ml pipette | -0.2 | 279 | IRR | 1 | 100 | 1000 |
| 40102K | 2ml pipette | -0.3 | 279 | IRR | 1 | 100 | 1000 |
| 47105 | 5ml pipette | -2.0 | 298 | IRR | 1 | 50 | 200 |
| 47110 | 10ml pipette | -3.0 | 333 | IRR | 1 | 50 | 500 |
| 40125 | 25ml pipette | -10.0 | 349 | IRR | 1 | 25 | 200 |
| 47150 | 50ml pipette | -5.0 | 344 | IRR | 1 | 50 | 50 |
| 40105 | 5ml pipette * | -1.5 | 275 | IRR | 1 | 50 | 200 |

* Without suction adapter



See page for full profile of disposable plastic pipettes

Pipettes, Individually Wrapped, Plastic Film Packaging, Unplugged

Ideal for use in aspiration techniques

| Inner Pack Qty | Shelf Pack Qty | Case Qty |
|----------------------|----------------------|--|
| . 1 | 100 | 1000 |
| . 1 | 100 | 1000 |
| . 1 | 50 | 200 |
| . 1 | 25 | 200 |
| | Pack | Pack Qty Pack Qty 1 100 1 100 1 100 1 100 1 50 |







Pipettes, Individually Wrapped, Paper Peel Packaging, Plugged

- Printed with product code, lot number and expiry date
- Paper backing allows for easier access
- Paper backing maintains shape for easy disposal of pipette within wrapper following use

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Inner Pack Qty | Shelf Pack Qty | Case Qty |
|-----------------|--------------|---------------------------------|---------------------------|-----------|----------------------|----------------------|-------------|
| 40501K | 1ml pipette | -0.2 | 279 | IRR | 1 | 100 | 1000 |
| 40502K | 2ml pipette | -0.3 | 279 | IRR | 1 | 100 | 1000 |
| 47505 | 5ml pipette | -2.0 | 275 | IRR | 1 | 50 | 200 |
| 47510 | 10ml pipette | -3.0 | 333 | IRR | 1 | 50 | 500 |
| 47525 | 25ml pipette | -10.0 | 349 | IRR | 1 | 25 | 200 |
| 47550 | 50ml pipette | -5.0 | 344 | IRR | 1 | 25 | 50 |



Pipettes, Narrow Orifice, Individually Wrapped, Plastic Film Packaging, Plugged

- For use in cell culture applications
- Special narrow orifice to help shear clumps of cells with repeated aspiration

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Inner Pack Qty | Shelf Pack Qty | Case Qty |
|-----------------|---------------------------------|---------------------------------|---------------------------|-----------|----------------------|----------------------|-------------|
| 47105N | 5ml pipette, narrow orifice | -2.0 | 275 | IRR | 1 | 50 | 200 |
| 47110N | 10ml pipette, narrov orifice | v -3.0 | 333 | IRR | 1 | 50 | 500 |



See page for full profile of disposable plastic pipettes



Pipettes, Narrow Orifice, Bulk Packed, Plugged

- Bulk packed in shelf packs of 25 pipettes for the busy laboratory
- For use in cell culture
- Special narrow orifice to help shear clumps of cells with repeated aspiration

| Product Code | | egative uations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|------------------------------|----------------------------|---------------------------|-----------|----------------------|-------------|
| 47305N | 5ml pipette, narrow orifice | -2.0 | 275 | IRR | 25 | 200 |
| 47310N | 10ml pipette, narrow orifice | -3.0 | 333 | IRR | 25 | 500 |

Pipettes, Shortie, Individual Paper Peel Packaging, Plugged

Short convenient length

 Specifically designed for use in laminar air flow cabinets – easier to manipulate in confined spaces

| Product Code | Description (| Negative Graduations (ml) | Overall Length (mm) | Sterility | Inner Pack Qty | Shelf Pack Qty | Case Qty |
|-----------------|----------------------|---------------------------------|---------------------------|-----------|----------------------|----------------------|-------------|
| 42505 | 5ml shortie pipette | -3.0 | 226 | IRR | 1 | 50 | 200 |
| 42510 | 10ml shortie pipette | -10.0 | 232 | IRR | 1 | 50 | 200 |

A range of shortie pipettes manufactured in chemically resistant glass can be found on page 43 $\,$

Pipettes, Open-ended, Bulk Packed, Plugged

- Wide orifice for use with viscous liquids
- Ideal in food laboratories for pipetting homogenised samples

| Product Code | Description G | Negative iraduations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|------------------------|---------------------------------|---------------------------|-----------|----------------------|-------------|
| 41301K | 1ml pipette, open end | -0.2 | 271 | IRR | 50 | 1000 |
| 41302K | 2ml pipette, open end | -0.3 | 271 | IRR | 50 | 1000 |
| 41305 | 5ml pipette, open end | -2.0 | 250 | IRR | 25 | 200 |
| 41310* | 10ml pipette, open end | -2.0 | 350 | IRR | 25 | 500 |

* Not suitable for use with automatic pipette fillers



See page 38 for full profile of disposable plastic pipettes

Pipettes, Milk

- Specifically designed for use within the milk industry
- Graduated up to 1.1ml and 2.2ml

| Product Code | Description | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty | |
|-----------------|--------------------|---------------------------|-----------|----------------------|-------------|--|
| 43301PK | 1.1ml milk pipette | 279 | IRR | 50 | 1000 | |
| 43302PK | 2.2ml milk pipette | 279 | IRR | 50 | 1000 | |











Pipettes, ESR

- For use in determining Erythrocyte Sedimentation Rates (ESR)
- CE marked in accordance with the European Directive 98/79/EC
- For in vitro use only
- Available with or without printed graduations

S28BL is graduated 0 to 190mm

Plugged

(i)

| Product Code | Description | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|---------------------------|---------------------------|-----------|----------------------|-------------|
| S28 | ESR pipette, ungraduated, | 229 | NS | 50 | 500 |
| S28BL | ESR pipette, graduated, | 229 | NS | 50 | 500 |



Pipettes, Serological, Glass, Individual **PYREX**[®] Paper Peel Packaging, Plugged

- Manufactured in chemically resistant Pyrex[®] borosilicate glass
- Calibrated for delivery with the last drop expelled by blowing
- Easy to read graduations

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|--------------|---------------------------------|---------------------------|-----------|----------------------|-------------|
| 7077-1N | 1ml pipette | -0.2 | 290 | IRR | 1 | 800 |
| 7077-2N | 2ml pipette | -0.2 | 290 | IRR | 1 | 720 |
| 7077-5N | 5ml pipette | -1.0 | 290 | IRR | 1 | 720 |
| 7077-10N | 10ml pipette | -2.0 | 290 | IRR | 1 | 600 |



Pipettes, Serological, Glass, Bulk Packed, Plugged

PYREX[®]

CE

- Manufactured in chemically resistant Pyrex[®] borosilicate glass
- Bulk packed in easy to handle shelf packs
- Calibrated for delivery with the last drop expelled by blowing
- Easy to read graduations

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|---------------|---------------------------------|---------------------------|-----------|----------------------|-------------|
| 7078-5X | 0.5ml pipette | -0.2 | 215 | IRR | 25 | 500 |
| 7078-1CN | 1ml pipette | -0.2 | 290 | IRR | 50 | 1000 |
| 7078-2N | 2ml pipette | -0.2 | 290 | IRR | 35 | 700 |
| 7078-5N | 5ml pipette | -1.0 | 290 | IRR | 30 | 960 |
| 7078-10N | 10ml pipette | -2.0 | 290 | IRR | 20 | 720 |

(i)

See page 38 for a full profile of disposable glass pipettes

Pipettes, Serological, Glass, Bulk Packed, Unplugged

- Manufactured in chemically resistant Pyrex[®] borosilicate glass
- Bulk packed in easy to handle shelf packs
- Calibrated for delivery with the last drop expelled by blowing
- Easy to read graduations

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|---------------|---------------------------------|---------------------------|-----------|----------------------|-------------|
| 7079-5X | 0.5ml pipette | -0.2 | 215 | NS | 125 | 500 |
| 7079-1CN | 1ml pipette | -0.2 | 290 | NS | 50 | 1000 |
| 7079-2N | 2ml pipette | -0.2 | 290 | NS | 35 | 700 |
| 7079-5N | 5ml pipette | -1.0 | 290 | NS | 30 | 960 |
| 7079-10N | 10ml pipette | -2.0 | 290 | NS | 30 | 720 |



Pipettes, Serological, Glass, Short, Bulk Packed, Plugged

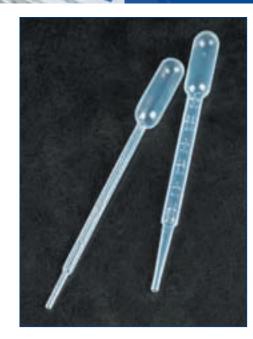


PYREX®

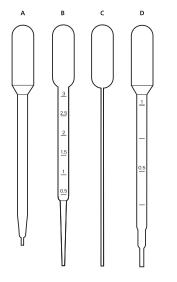
- Manufactured in chemically resistant Pyrex[®] borosilicate glass
- Compact size, ideal for operation in confined spaces, such as laminar air flow cabinets
- Calibrated for delivery with the last drop expelled by blowing
- Easy to read graduations

| Product Code | Description | Negative Graduations (ml) | Overall Length (mm) | Sterility | Shelf Pack Qty | Case Qty |
|-----------------|--------------|---------------------------------|---------------------------|-----------|----------------------|-------------|
| 7078B-1 | 1ml pipette | -0.5 | 215 | IRR | 20 | 500 |
| 7078B-5 | 5ml pipette | -3.0 | 215 | IRR | 10 | 400 |
| 7078B-10 | 10ml pipette | -4.0 | 215 | IRR | 10 | 400 |
| 7078B-25 | 25ml pipette | -5.0 | 300 | IRR | 5 | 400 |
| 7078B-50 | 50ml pipette | -3.0 | 358 | IRR | 5 | 50 |





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Pipettes, Transfer, Plastic

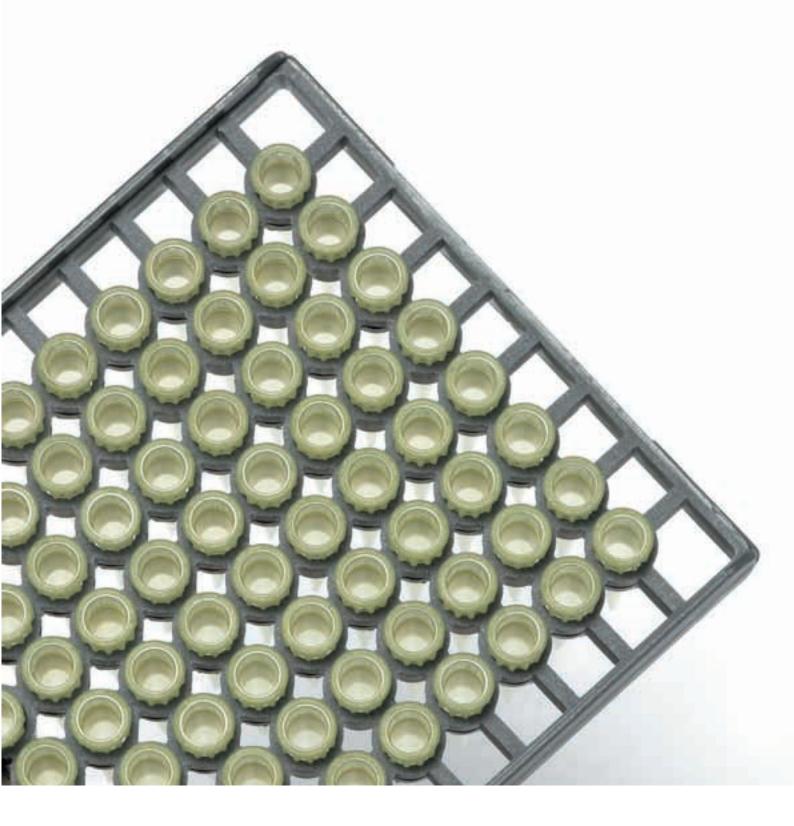
- Ideal for transferring liquids safely
- Manufactured from non-toxic, low density polyethylene
- Integral filling bulb eliminates contamination associated with separate rubber bulbs.
- Excellent transparency and uniform thickness
- Precise graduations on 1ml and 3ml versions ensuring consistent results
- Can be heat sealed for sample storage and transportation
- Heat sealed bulbs suitable for storage in the gas phase of liquid nitrogen

| Product Code | Description G | Upper iraduation | Sterility | Shelf Pack | Case Qty |
|-----------------|-------------------------------|---------------------|-----------|---------------|-------------|
| 201C | Transfer Pipette | 1ml | NS | 500 | 3000 |
| PP88SA | Transfer Pipette | 1ml | IRR | 10 | 500 |
| PP88SB | Transfer Pipette | 1ml | IRR | 1 | 500 |
| 200C | Transfer Pipette | 3ml | NS | 500 | 3000 |
| PP89SA | Transfer Pipette | 3ml | IRR | 10 | 500 |
| PP89SB | Transfer Pipette | 3ml | IRR | 1 | 500 |
| 202C | Transfer Pipette, narrow stem | None | NS | 500 | 3000 |
| 28894 | Transfer Pipette, fine tip | None | NS | 500 | 500 |
| 28951 | Transfer Pipette, fine tip | None | IRR | 10 | 500 |

- A Fine tip suitable for use where small drop sizes are required
- **B** 3ml graduated suitable for blood banking and general laboratory use
- C Narrow stem suitable for use as a freeze vial, sedimentation and transport
- ${\bf D}$ 1ml graduated suitable for general laboratory use, storage and transport of samples



Need a pipettor for use with your serological pipettes? See the Stuart Bibbyjet Pro on page 93 of this catalogue



Pipette Tips

pipette tips



Pipette Tips,

- Manufactured from virgin polypropylene and metal-free pigments
- High translucency for excellent visibility of sample
- Hydrophobic surface to minimise fluid retention
- Precision moulded for clean delivery
- Non-sterile and autoclavable at 121°C
- Available bulk packed, an economical choice for the busy laboratory, or as rack packed refills for ease of handling

Gilson, Clear 0.5–10µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------|-----------|----------------------|-------------|--|
| BCT10 | Bulk | NS | 1000 | 2000 | |
| BCTR10 | Racked | NS | 96 | 480 | |

Eppendorf, Clear 0.5-10µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------|-----------|----------------------|-------------|--|
| BCT20 | Bulk | NS | 1000 | 2000 | |
| BCTR20 | Racked | NS | 96 | 480 | |

Gilson, Yellow 5-200µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------|-----------|----------------------|-------------|
| BCT25 | Bulk | NS | 1000 | 2000 |
| BCB25 | Bulk | NS | 1000 | 25000 |
| BCTR25 | Racked | NS | 96 | 480 |

Universal, Yellow 5-200µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------|-----------|----------------------|-------------|
| BCT30 | Bulk | NS | 1000 | 2000 |
| BCB30 | Bulk | NS | 1000 | 25000 |
| BCTR30 | Racked | NS | 96 | 480 |

Oxford, Clear 10-200µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------|-----------|----------------------|-------------|--|
| BCT40 | Bulk | NS | 1000 | 2000 | |

BCT10







BCT40

MLA, Clear 5-200µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | BCT50 |
|-----------------|-----------|-----------|----------------------|-------------|-------|
| BCT50 | Bulk | NS | 1000 | 2000 | |

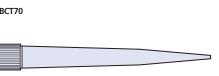
Biohit, Clear 5-300µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------|-----------|----------------------|-------------|--|
| BCT60 | Bulk | NS | 1000 | 2000 | |
| BCTR60 | Racked | NS | 96 | 480 | |



Universal/Eppendorf, Blue 100-1000µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | ВСТ |
|-----------------|-----------------|-----------|----------------------|-------------|-----|
| BCT70 | Bulk | NS | 1000 | 1000 | |
| BCB70 | Bulk | NS | 1000 | 10000 | |
| BCTR70 | Racked | NS | 96 | 480 | |
| BCT70S | Inner bags of 5 | IRR | 5 | 1000 | |



Oxford, Blue 50-1000µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | ВСТ80 |
|-----------------|-----------|-----------|----------------------|-------------|-------|
| BCT80 | Bulk | NS | 1000 | 1000 | |

MLA, Clear 50-1000µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | BCT90 |
|-----------------|-----------|-----------|----------------------|-------------|-------|
| ВСТ90 | Bulk | NS | 1000 | 1000 | |

pipette tips

Gilson, Clear 1000-5000µl

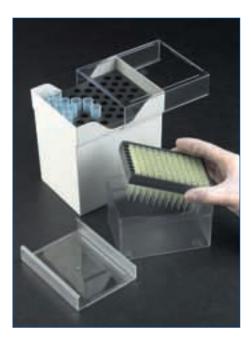
| BCT100 | Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | |
|--------|-----------------|-----------|-----------|----------------------|-------------|--|
| | BCT100 | Bulk | NS | 250 | 1000 | |

Biohit, Clear 1000-5000µl

| Product Code | Packaging | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------|-----------|----------------------|-------------|--|
| BCT110 | Bulk | NS | 250 | 1000 | |

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Tips are available to fit most popular pipettors including Gilson, Finnpipette, Oxford and Eppendorf. Consult the Tip/Pipettor Compatibility Chart on page 105 of the Technical Information section



BCT110

Pipette Tip Boxes

- For use with the racked tips detailed above
- Manufactured from sturdy polycarbonate with a sliding lid for ease of access
- Boxes help maintain cleanliness and also hold tips firmly for rapid connection to the pipettor
- Fully autoclavable at 121°C

| Product Code | Description | Sterility | Qty | |
|-----------------|--|-----------|-----|--|
| BCR10 | Universal box for racked tip re-fills, up to 1000μ l | NS | 1 | |
| BCR20 | Box for 5ml tips only (BCT100/110) | NS | 1 | |



Swabs



Swabs, Transport

- Primary sample collection and transport device for bacteria
- Contains media for the maintenance of bacterial sample during transport to the laboratory

CE

- CE marked as Class IIa in accordance with the Medical Device Directive 93/42/EEC (for transient invasive use)
- In vitro use only
- Unique packaging system combines a nitrogen flushed aluminium inner bag with a laminated film pouch to prevent oxidation and dehydration of the media, ensuring optimum performance
- Venturi design enhances performance by helping to eliminate the incidence of bubbles and breaks in the agar gel
- Each batch of product is tested for performance using a wide range of aerobic and anaerobic pathogens to ensure adequate recoveries
- Certificate of Sterility and Quality Assurance is available on request
- Lot number, expiry date and tamper evident tube ensure complete traceability and sterility
- Soft rayon swab tips, inert and non-toxic to micro-organisms and patients

| Product Code | Media | Applicator/ Tip | Cap Colour | Use | Sterility | Inner Pack Qty | Shelf Pack Qty | Case Qty |
|-----------------|----------------------|-----------------------|---------------|--|-----------|----------------------|----------------------|-------------|
| 18108CST | Amies | Plastic/Rayon | Blue | Throat, vagina, wound and skin | IRR 1 | 1 | 50 | 500 |
| 18114CST | Amies with charcoal | Plastic/Rayon | Black | Throat, vagina, wound and urogenital | IRR | 1 | 50 | 500 |
| 18110CST | Armies | Aluminium/ Rayon | Orange | Paediatric or urethral | IRR | 1 | 50 | 500 |
| 18116CST | Armies with charcoal | Aluminium/ Rayon | Orange | Urogenital | IRR | 1 | 50 | 500 |
| 18190CST | Armies | Twisted wire/Rayon | Blue | Pernasal | IRR | 1 | 50 | 500 |
| 18192CST | Armies with charcoal | Twisted wire/Rayon | Blue | Pernasal | IRR | 1 | 50 | 500 |
| 18111CST | Stuart agar | Plastic/Rayon | Blue | General purpose | e IRR | 1 | 50 | 500 |



For more details on the unique Venturi design of the Sterilin transport swabs, refer to page 106 of the Technical Information section

For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com

CE

Swabs, Transport M40

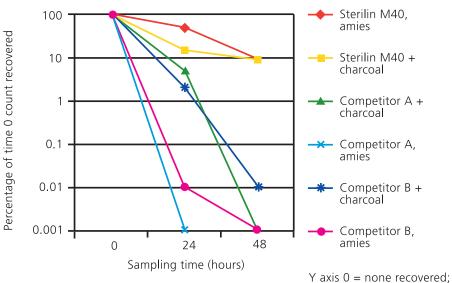
As for the standard transport swabs above but with the following added benefits;

- Complies with the American NCCLS M40-A and the German DIN 58942-4 standards
- Extended length of time for bacterial survival 48 hours (minimum)
- Wider temperature range comparable performance at both room temperature and 4°C
- Improvements to the swab tip give a superior performance

| Product Code | Media | Applicator/ Tip | Cap Colour | Use | Sterility | Inner Pack Qty | | Case Qty |
|-----------------|---------------------|--------------------|---------------|--------------------|-----------|----------------------|----|-------------|
| 408CST | Amies | Plastic/Rayon | Red | General purpose | IRR | 1 | 50 | 500 |
| 414CST | Amies with charcoal | Plastic/Rayon | Black | Urogenital | IRR | 1 | 50 | 500 |

For further information on the M40 Swabs please refer to page 107 of the Technical Information section





Y axis 0 = none recovered; <2.2 cfu/ml in washings







CE

- For the collection and transport of viruses and Chlamydia
- CE marked as Class IIa in accordance with the Medical Device Directive 93/42/EEC (for transient invasive use)
- In vitro use only
- Contains special media for the optimal recovery of viral pathogens or Chlamydia
- An inert non-toxic polyurethane sponge contains the liquid transport medium. This ensures the swab tip is bathed in media at all times
- CE marked as Class IIa Medical Device

| Product Code | Applicator/ Tip | Cap Colour | Use | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------------|---------------|-----------|-----------|----------------------|-------------|
| 144C | Plastic/Dacron | Yellow | Chlamydia | IRR | 1 | 25 |
| 145C | Aluminium/Dacron | Yellow | Chlamydia | IRR | 1 | 25 |
| 147C | Plastic/Dacron | Pink | Viruses | IRR | 1 | 25 |
| 148C | Aluminium/Dacron | Pink | Viruses | IRR | 1 | 25 |



Swabs, Plain in a Tube

(6

- Primary sample collection device for bacteria
- CE marked as Class IIa in accordance with the Medical Device Directive 93/42/EEC (for transient invasive use)
- Colour coded caps for ease of identification
- Supplied in a tube for ease of handling

| Product Code | Applicator/ Tip | Cap Colour | Use | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--|---------------|---|-----------|----------------------|-------------|
| F150CA | Wood/Cotton | Red | General purpose | IRR | 1 | 100 |
| F155CA | Plastic/Rayon | White | General purpose | IRR | 1 | 100 |
| F160CA | Aluminium/Rayon | Orange | Ear, nose,vaginal or urethral | IRR | 1 | 100 |
| F168CA | Twisted wire/Rayon | Blue | Pernasal and nasopharyngeal | IRR | 1 | 100 |
| 451CST | Plastic/Cotton, Vegetable protein coated | Yellow | Vegetable protein coating reduces overgrowth | IRR | 1 | 100 |
| F152CA | Wood/Cotton, Charcoal coated | Black | Charcoal neutralises inhibitory effects of cotton | IRR | 1 | 100 |
| 170C | Plastic/Dacron | Blue | ATP free for hygiene monitoring | IRR | 1 | 100 |



Must be processed as soon as possible after sampling to avoid dehydration of the sample and possible non-recovery of pathogens

CE

Swabs, Plain in a Peel Pouch

Ideal for immediate plating of swabs

| Product Code | Applicator | Tip | Use | Sterility | Inner Pack Qty | Case Qty |
|-----------------|------------|--------|-----------------|-----------|----------------------|-------------|
| 165KS01 | Wood | Cotton | General purpose | IRR | 1 | 1000 |
| 165KS100 | Wood | Cotton | General purpose | EO | 100 | 2500 |



Swabs, Environmental

- For environmental sampling, particularly in the food and pharmaceutical industries
- Available in easy to use kit format consisting of a sealed tube with neutralising buffer, capped swab and sampling template
- Sterile sampling templates, 10cm x 10cm (100cm²), enable accurate calculation of colony forming units per cm²
- Alginate tipped swabs (903C) dissolve fully to ensure complete delivery of microbial sample into the SRK solution

| Product Code | Description | Shaft Length (cm) | Applicator Material | Inner Pack Qty | Case Qty |
|-----------------|---|-------------------------|------------------------|----------------------|-------------|
| 902C | Swab rinse kit, 10ml solution, separate swab, dacron tip | 13 | PS | 1 | 25 |
| 903C | Swab rinse kit, 10ml solution, separate swab, alginate tip | 13 | PS | 1 | 25 |
| 904C | Swab rinse kit, 10ml solution, separate swab, large rayon tip | 13 | PS | 1 | 25 |
| 922C | Swab rinse kit, 10ml solution, integral dacron tip swab | 9 | PS | 1 | 50 |
| 926C | Swab rinse kit, 10ml solution, integral dacron tip swab, | 9 | PS | 50 | 50 |
| 905C | Square sampling kit, 902C with square sampling template | h 13 | PS | 1 | 10 |
| T2905C | Plastic square sampling template 10cm x 10cm | - | - | 5 | 50 |

For method of use please refer to page 107 of the Technical Information section

For constituents of the rinse solution please see page 107 of the Technical Information section











- Ideal for the collection, transport, maintenance and frozen storage of Viruses, Chlamydia, Mycoplasma and Ureaplasma
- Suitable for cell culture, Rapid Antigen Detection, DFA, EIA, PCR and nucleic acid amplification assays
- Room temperature stable and incorporates a cryoprotectant
- 3ml volume, formulation includes antibiotics to inhibit bacterial and fungal flora in patient samples
- Free standing polypropylene skirted tube with conical base enabling convenient sample preparation simply vortex and inoculate direct into tissue culture
- Available as filled tubes with a choice of separate individually wrapped swabs or a collection kit with the swab included
- Glass beads in the tube help with the release and dispersion of the patient sample from the swab



| Product Code | Description | Applicator/Tip | Sterility | Case Qty |
|-----------------|---|------------------------------|-----------|-------------|
| 330C | UTM, bulk tubes, 3ml medium | N/A | AS | 50 |
| 328C | UTM collection kit, 3ml medium | Plastic/Dacron | AS/ | 50 |
| | + standard swab | | IRR | |
| 501CS01 | Minitip flocked swab, individually | Plastic/Nylon | IRR | 100 |
| | wrapped | fibre | | |
| 502CS01 | Regular flocked swab, individually wrapped | Plastic/Nylon fibre fibre | IRR | 100 |
| 503CS01 | Flexible nasopharyngeal minitip flocked swab, individually wrapped | Plastic/Nylon fibre fibre | IRR | 100 |
| 511CS01 | Endocervical flocked swab, individually wrapped | Plastic/Nylon fibre | IRR | 50 |

Method of use













Tubes and Vials

Cryogenic Vials

- Suitable for the cryogenic storage of biological material, human or animal cells
- Performs well both in low temperature freezers and the gas phase of liquid nitrogen
- RNase and DNase free and certified non-pyrogenic to 0.03EU/ml
- Silicone washer ensures excellent seal to temperatures as low as –196°C
- Have a large white marking area and printed graduations
- Thick vial wall for strength and additional safety
- Choice of self standing or round bottom :
 - Self standing have a universal locking base for use with the workstation
 - Round bottom ensures contents can be completely expelled
- The cap and base are both manufactured in polypropylene, and therefore have the same rate of expansion, which further enhances the leakproof qualities of these vials at changing temperatures

Cryogenic Vials, Internal Thread

- Internal threaded product is considered to give the best seal possible
- Has a good flush profile
- Round bottom tube can be centrifuged up to RCF value of 14,000 xg

| Product Code | Description | Capacity (ml) | Material | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-------------------------|------------------|----------|-----------|----------------------|-------------|--|
| 1CRIS | Cryovial, self standing | 1.2 | PP | IRR | 100 | 500 | |
| 2CRIS | Cryovial, self standing | 2.0 | PP | IRR | 100 | 500 | |
| 2CRIR | Cryovial, round bottom | 2.0 | PP | IRR | 100 | 500 | |
| 4CRIS | Cryovial, self standing | 4.0 | PP | IRR | 100 | 500 | |
| 4CRIR | Cryovial, round bottom | 4.0 | PP | IRR | 100 | 500 | |
| 5CRIR | Cryovial, round bottom | 5.0 | PP | IRR | 100 | 500 | |



The cryogenic vials detailed above are not recommended for use in the liquid phase of liquid nitrogen. Trapped liquid nitrogen in the vial, when brought up to room temperature, can cause pressure build up and lead to possible explosion or leakage.



Cryogenic Vials, External Thread

- External threaded cap design helps to reduce the possibility of contamination
- The cap features a long skirt and smooth thread design for one handed aseptic methods
- Round bottomed tube can be centrifuged up to RCF value of 17,000 xg

| Product Code | Description | Capacity (ml) | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------------------|------------------|----------|-----------|----------------------|-------------|
| 1CRES | Cryovial, self standing | 1.2 | PP | IRR | 100 | 500 |
| 2CRES | Cryovial, self standing | 2.0 | PP | IRR | 100 | 500 |
| 2CRER | Cryovial, round bottom | 2.0 | PP | IRR | 100 | 500 |
| 3CRES | Cryovial, self standing | 3.0 | PP | IRR | 100 | 500 |
| 4CRES | Cryovial, self standing | 4.0 | PP | IRR | 100 | 500 |
| 5CRES | Cryovial, self standing | 5.0 | PP | IRR | 100 | 500 |



The cryogenic vials detailed above are not recommended for use in the liquid phase of liquid nitrogen. Trapped liquid nitrogen in the vial, when brought up to room temperature, can cause pressure build up and lead to possible explosion or leakage.



Cryogenic Vials, Cap Inserts

 Fit precisely into the cryogenic vial cap to enable colour coding of samples for easier identification

| Product Code | Description | Material | Inner Pack Qty | Case Qty | |
|-----------------|----------------------|----------|----------------------|-------------|--|
| CRINM | Assorted cap inserts | PP | 100 | 500 | |



Cryogenic Vials, Heat Sealable

- Suitable for the cryogenic storage of biological material, human or animal cells
- Manufactured from polyethylene
- 2ml volume

i

- Supplied as open vial complete with push on cap
- Vial can be sealed using the cap provided or by means of heated tweezers or forceps
- Gamma irradiated to ensure sterility

| Product Code | Description | Capacity (ml) | Material Base/Cap | Sterility | Case Qty | |
|-----------------|-------------------------|------------------|----------------------|-----------|-------------|--|
| 350025 | Cryovial, heat sealable | 2.0 | PE/PP | IRR | 200 | |

Integrity of the seal can be checked by immersing in a chilled solution of 70% ethanol containing 1% methylene blue. Penetration of the dye into the vial indicates lack of complete seal.

Cryogenic Vial, Workstation

- For use with self standing cryogenic tubes having a universal locking base
- Tubes securely lock into the wells, allowing for simple one handed operation of the vial
- Accommodates up to 50 tubes
- Manufactured from polypropylene and fully autoclavable
- Each position is identified with an alpha numeric index to aid sample identification
- Strong handles make the workstation safe and easy to carry
- Rubber feet ensure stability on the bench

| Product Code | Description | Material | Inner Pack Qty | Case Qty | |
|-----------------|------------------|----------|----------------------|-------------|--|
| WKS1 | Workstation rack | PP | 1 | 1 | |







Cryogenic Vials, Storage Boxes

- Suitable for the storage of vials from 1.0ml to 5.0 ml volumes
- Made of strong polycarbonate to ensure suitability at temperatures between –196°C and +121°C
- Autoclavable at 121°C for 20 minutes
- Transparent cover enables clear view of the box contents
- Box cover has a single orientation fit and a numbered grid for easy sample identification
- Supplied with a vial picker for the easy removal of vials
- Surface of cover accepts writing with cryogenic marker pens to aid inventory control

| Product Code | Description | Material | Inner Pack Qty | Case Qty |
|-----------------|---|----------|----------------------|-------------|
| CRBOX1 | Storage box, 81 places for 1.0ml & 2.0ml vials | PC | 4 | 24 |
| CRBOX2 | Storage box, 81 places for 3.0ml & 4.0ml vials | PC | 6 | 12 |
| CRBOX3 | Storage box, 81 places for 5.0ml vials | PC | 5 | 10 |
| CRBOX4 | Storage box, 100 places for 1.0ml & 2.0ml vials | PC | 4 | 24 |

Scintillation Vial, 20ml

- Ideal for use in liquid scintillation counting, beta/gamma counting and for sample storage
- Precision manufactured from either glass or polypropylene for strength and chemical resistance
- Quarter turn screw cap ensures excellent sample containment

| Product Code | Description | Volume (ml) | Material | Sterility | OD x H (mm) | Inner Pack Qty | Case Qty |
|-----------------|----------------------------|----------------|----------|-----------|----------------|----------------------|-------------|
| S31 | Scintillation vial and cap | 20 | PP/PE | NS | 26.5 x 60 | 1000 | 1000 |
| 38091 | Scintillation vial and cap | 20 | G/UREA | NS | 27 x 60 | 500 | 500 |

Scintillation Vial Insert, 6ml

- With flush fitting cap, ideal as insert for glass and plastic scintillation vials
- Ideal for use in liquid scintillation counting and beta/gamma counting when savings in reagent are required
- Precision manufactured from polypropylene for strength and chemical resistance
- Material clarity enables visibility of reagent volume
- Time saving push on cap provides a secure seal
- Easy write on cap aids sample identification

| Produc Code | t Description | Volume (ml) | Material | Sterility | OD x H (mm) | Inner Pack Qty | Case Qty |
|----------------|--------------------------------------|----------------|----------|-----------|----------------|----------------------|-------------|
| 505 | Scintillation vial insert and cap | 6 | PP/PE | NS | 14.5 x 58 | 250 | 1000 |

Tubes, Microcentrifuge, 1.5ml

- Recommended maximum RCF 20,000xg in suitably balanced rotors
- Manufactured from robust transparent polypropylene
- Able to withstand autoclaving, boiling, freezing and high speed centrifugation
- Graduations at 0.5ml, 1.0ml and 1.5ml

| Product Code | Description | H x OD (mm) | Material | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|--|----------------|----------|-----------|----------------------|-------------|--|
| 2150N | Micro-centrifuge tube | 41 x 11 | PP | NS | 500 | 10,000 | |
| 2150R | Micro-centrifuge tube rack (holds 20) | 210 x 70 x 37 | PP | NS | 1 | 1 | |





Tubes, Centrifuge, 13.5ml, Round Base

- Recommended RCF 3,200 x g in suitably balanced rotors
- Capped product aseptically manufactured from virgin polystyrene
- Moulded graduation marks at 5ml and 10ml
- Wadded or non-wadded cap

| Product Code | Description (ml) | Capacity (mm) | H x OD | Material (Base/Cap) | Sterility | Case Qty |
|-----------------|--|------------------|----------|------------------------|-----------|-------------|
| 142B | Centrifuge tube, no cap | 13.5 | 100 x 16 | PS | NS | 1200 |
| 147A | Push fit cap for 142B | - | - | PE | NS | 1200 |
| 142AS | Centrifuge tube with non-wadded screw ca | 13.5 p | 100 x 16 | PS/PE | AS | 450 |
| 142ASR | Centrifuge tube with wadded screw cap | 13.5 | 100 x 16 | PS/PE | AS | 450 |

Tubes, Centrifuge, 13.5ml, Conical Base

- Recommended RCF 3,200 x g in suitably balanced rotors
- Capped product aseptically manufactured from virgin polystyrene
- Moulded graduation marks at 5ml and 10ml
- Wadded or non-wadded cap

| Product Code | Description | Capacity (ml) | H x OD (mm) | Material (Base/Cap) | Sterility | Case Qty |
|-----------------|---|------------------|----------------|------------------------|-----------|-------------|
| 144B | Centrifuge tube, no cap |) 13.5 | 100 x 16 | PS | NS | 1200 |
| 147A | Push fit cap for 144B | - | - | PE | NS | 1200 |
| 144AS | Centrifuge tube with non-wadded screw cap | 13.5 | 100 x 16 | PS/PE | AS | 450 |
| 36100 | Centrifuge tube with wadded screw cap | 13.5 | 110 x 16 | PS/PE | AS | 450 |





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Tubes, Centrifuge, 15ml

- Recommended RCF values:
 - Polypropylene 15ml centrifuge tubes 6,000 x g
 - Polystyrene 15ml centrifuge tubes 3,500 x g
- Manufactured from either optically clear polystyrene or high clarity polypropylene
- Polypropylene is chemically more resistant than polystyrene and allows higher centrifugation speeds
- Gamma irradiated to ensure sterility and non-pyrogenic to < 0.25 EU/ml
- Simple one-handed cap operation, facilitating single-handed aseptic techniques
- Flat cap to allow for identification marking
- Crisp white printed graduations on tube body with large marking strip for labelling
- Moulded graduations on the cone of tube
- Available in polystyrene foam racks or bulk packed

| Product Code | Description C | apacity (ml) | H x OD (mm) | Bulk/ Racked | Sterility | Material (Tube/Cap) | Inner Pack Qty | Case Qty |
|-----------------|-----------------|-----------------|----------------|-----------------|-----------|------------------------|----------------------|-------------|
| 15PPB | Centrifuge tube | 15 | 120 x 17 | Bulk | IRR | PP/PE | 50 | 800 |
| 15PPR | Centrifuge tube | 15 | 120 x 17 | Racked | IRR | PP/PE | 50 | 450 |
| 15PSB | Centrifuge tube | 15 | 120 x 17 | Bulk | IRR | PS/PE | 50 | 800 |
| 15PSR | Centrifuge tube | 15 | 120 x 17 | Racked | IRR | PS/PE | 50 | 450 |



Tubes, Centrifuge, 50ml

- Recommended RCF 7,000 x g in suitably balanced rotor
- Manufactured from high clarity polypropylene
 - Gamma irradiated to ensure sterility and non-pyrogenic to < 0.25 EU/ml
- Conical base and available in a choice of free standing (skirted) and non-skirted designs
- Crisp white printed graduations with large marking strip for labelling
- Flat cap allows for identification marking
- Moulded graduation mark at 50ml

| Product Code | Description | Capacity (ml) | H x OD (mm) | Sterility | Material | Inner Pack Qty | Case Qty |
|-----------------|---------------------------------|------------------|----------------|-----------|----------|----------------------|-------------|
| 36050NPG | Centrifuge tube, skirted | 50 | 115 x 31 | IRR | PP/PE | 25 | 250 |
| 36050CPG | Centrifuge tube, non-skirted | 50 | 115 x 31 | IRR | PP/PE | 25 | 250 |



Non-skirted 50ml tube supplied with one polystyrene foam rack per case

For full table of recommended RCF values for Sterilin centrifuge tubes and containers, please refer to page 108 of the Technical Information section

CE

Tubes, Flat Base, Push Cap

- Suitable for samples up to 2ml in volume
- Manufactured from virgin polystyrene
- CE marked in accordance with the European Directive 98/79/EC
- Available labelled for sample identification
- Tubes and caps packed separately

| Product Descr Code | iption Capacity (ml) | Label | | Material (Tube/Cap) | Sterility | Case Qty |
|-----------------------|--------------------------|-----------------|----------------------------|------------------------|-----------|--------------|
| | push cap 2 push cap 2 | None Printed | 48.5 x 11.5 48.5 x 11.5 | | NS NS | 1500 1500 |

Tubes, Flat Base, Screw Cap

- Suitable for samples ranging from 5ml to 10ml
- Manufactured from virgin polystyrene
- CE marked in accordance with the European Directive 98/79/EC
- Available labelled for sample identification

| Product Code | Description | Capacity (ml) | Label | OH x OD (mm) | Material (Tube/Cap) | Sterility | Case Qty |
|-----------------|-----------------|------------------|---------|-----------------|------------------------|-----------|-------------|
| Z5PS | Tube, screw cap | 5 | Printed | 54.5 x 17.0 | PS/PE | NS | 1000 |
| Z5PSNL | Tube, screw cap | 5 | None | 54.5 x 17.0 | PS/PE | NS | 1000 |
| Z10PS | Tube, screw cap | 10 | Printed | 100.0 x 17.0 | PS/PE | NS | 500 |
| Z10PSNL | Tube, screw cap | 10 | None | 100.0 x 17.0 | PS/PE | NS | 500 |



Tubes, Conical Base, Scew Cap

- Suitable for samples ranging from 5ml to 10ml
- Manufactured from chemically resistant polypropylene
- CE marked in accordance with the European Directive 98/79/EC

| Product Code | Description | Capacity (ml) | Label | OH x OD (mm) | Material (Tube/Cap) | Sterility | Case Qty |
|-----------------|--------------------------------|------------------|---------|-----------------|------------------------|-----------|-------------|
| Z5PE | Tube, with skirt, screw cap | 5 | Printed | 56.5 x 17.5 | PP/PE | NS | 1000 |
| Z5PENL | Tube, with skirt, screw cap | 5 | None | 56.5 x 17.5 | PP/PE | NS | 1000 |
| Z10PE | Tube, with skirt, screw cap | 10 | Printed | 96.0 x 17.5 | PP/PE | NS | 500 |
| Z10PENL | Tube, with skirt, screw cap | 10 | None | 96.0 x 17.5 | PP/PE | NS | 500 |





Tubes, Round Base, Plastic

- Manufactured from transparent polystyrene or tough polypropylene
- Suitable for samples ranging from 0.6ml to 11ml
- Provide a safe and convenient alternative to glass

| Product Code | Description | H x OD (mm) | Capacity (ml) | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------|----------------|------------------|----------|-----------|----------------------|-------------|
| RT15 | Tube | 40 x 6 | 0.6 | PS | NS | 1000 | 10,000 |
| 112 | Tube | 40 x 11 | 2.3 | PS | NS | 1000 | 1000 |
| RT20 | Tube | 50 x 6 | 1.0 | PS | NS | 1000 | 10,000 |
| RT25 | Tube | 65 x 10 | 2.7 | PS | NS | 500 | 6000 |
| 30908 | Tube, LP3 | 64 x 11 | 2.5 | PS | NS | 2500 | 2500 |
| RT30 | Tube, LP4 | 75 x 12 | 4.9 | PS | NS | 250 | 3500 |
| 30890 | Tube, LP4 | 75 x 12 | 4.9 | PP | NS | 1800 | 1800 |
| 30924 | Tube, LP5 | 75 x 13 | 5.5 | PS | NS | 1500 | 1500 |
| 30932 | Tube, LP6 | 95 x 16 | 11 | PS | NS | 750 | 750 |



Caps to fit Round Base Tubes

• Push fit caps to fit round bottom tube listed above

| Product Code | Description | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|----------------------|----------|-----------|----------------------|-------------|
| C2A | Cap for RT30 / 30890 | PE | NS | 3500 | 3500 |
| 30981 | Cap for 30924 | PE | NS | 6000 | 6000 |



Tubes, Round Base, Plastic, Screw Cap

- Manufactured from tough polypropylene
- Provide a safe and convenient alternative to glass

| Product Code | Description | Dimensions (mm) | Capacity (ml) | Material (Tube/Cap) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|----------------|--------------------|------------------|------------------------|-----------|----------------------|-------------|
| 31040 | Tube screw cap | 100 x 16 | 12 | PP/PE | NS | 500 | 500 |
| 31050 | Tube screw cap | 100 x 16 | 12 | PP/PE | IRR | 500 | 500 |

PYREX®

Tubes, Round Base, Soda Glass

- Suitable for samples ranging from 2ml to 20ml
- Provides greater chemical resistance than plastic
- Supplied without caps

| Product Code | Description | Capacity (ml) | H x OD (mm) | Material | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------|------------------|----------------|------------|-----------|----------------------|-------------|
| 49684 | Round base tube | 3 | 75 x 10 | Soda glass | NS | 250 | 1000 |
| 49635 | Round base tube | 5 | 75 x 12 | Soda glass | NS | 250 | 1000 |

Tubes, Round Base, Borosilicate Glass, **PYREX**[®] Rimless

- Manufactured from Pyrex[®] borosilicate glass
- High resistance to temperature and chemical attack
- Ideal for use with samples sensitive to leaching from plastic tubes
- Supplied without caps
- Autoclavable at 121°C

| Product Code | Description | Capacity (ml) | H x OD (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------|------------------|----------------|-----------|----------------------|-------------|
| 99445-10 | Glass tube | 4.0 | 75 x 10 | NS | 250 | 1000 |
| 99445-12 | Glass tube | 6.0 | 75 x 12 | NS | 250 | 1000 |
| 99445-13 | Glass tube | 10.0 | 100 x 13 | NS | 250 | 1000 |
| 99445-15 | Glass tube | 11.0 | 85 x 15 | NS | 250 | 1000 |
| 99445-16 | Glass tube | 15.0 | 100 x 16 | NS | 250 | 1000 |
| 99445-16X | Glass tube | 19.0 | 125 x 16 | NS | 250 | 1000 |
| 99445-16XX | Glass tube | 23.0 | 150 x 16 | NS | 250 | 1000 |
| 99445-18 | Glass tube | 28.5 | 150 x 18 | NS | 250 | 500 |
| 99445-20 | Glass tube | 36.0 | 150 x 20 | NS | 250 | 500 |

Tubes, Culture, Round Base, Borosilicate Glass, Screw Neck

- Manufactured from Pyrex[®] borosilicate glass
- High resistance to temperature and chemical attack
- Ideal for use with samples sensitive to leaching from plastic tubes
- Supplied without caps
- Autoclavable at 121°C

| Product Code | Description | Capacity (ml) | H x OD (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------|------------------|----------------|-----------|----------------------|-------------|
| 99449-13 | Glass tube | 7.5 | 100 x 13 | NS | 250 | 1000 |
| 99449-16 | Glass tube | 11.5 | 100 x 16 | NS | 250 | 1000 |
| 99449-16X | Glass tube | 15.0 | 125 x 16 | NS | 250 | 1000 |
| 99449-16XX | Glass tube | 19.0 | 150 x 16 | NS | 250 | 1000 |
| 99449-20 | Glass tube | 24.0 | 125 x 20 | NS | 250 | 500 |
| 99449-20X | Glass tube | 30.0 | 150 x 20 | NS | 250 | 500 |









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Tubes, Culture, Flat Base, Borosilicate **PYREX**[®] Glass, Screw Neck

- Manufactured from Pyrex[®] borosilicate glass
- High resistance to temperature and chemical attack
- Ideal for use with samples sensitive to leaching from plastic tubes
- Supplied without caps
- Autoclavable at 121°C

| Product Code | Description | Capacity (ml) | H x OD (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------------|------------------|----------------|-----------|----------------------|-------------|
| 99448-16 | Glass culture tube | 17.0 | 125 x 16 | NS | 250 | 1000 |
| 99448-19 | Glass culture tube | 29.5 | 145 x 20 | NS | 250 | 500 |

Caps to fit Glass Tubes

- Phenolic caps to fit screw neck tubes 99449 and 99448, with choice of:
 - Rubber liner
 - PTFE liner for inert sealing face
- Autoclavable at 121°C

| Product Code | Description | Liner | ID (mm) | Case Qty |
|-----------------|-------------|--------|------------|-------------|
| 99999-13 | Screw cap | Rubber | 13 | 1000 |
| 99999-15 | Screw cap | Rubber | 16 | 1000 |
| 99999-18 | Screw cap | Rubber | 20 | 1000 |
| 9998-13 | Screw cap | PTFE | 13 | 288 |
| 9998-15 | Screw cap | PTFE | 16 | 288 |
| 9998-18 | Screw cap | PTFE | 20 | 192 |

Tubes, Culture, Round Base, Plastic

- Suitable for suspension culture procedures
- Two position cap:
 - Leave loose for gas exchange
 - Push down for tight seal
- Large white marker area for easy labelling
- Printed graduations

| Product Description Code | Capacity (ml) | H x OD (mm) | Material (Tube/Cap) | Sterility | Inner Pack Qty | Case Qty | |
|-----------------------------|------------------|----------------|------------------------|-----------|----------------------|-------------|--|
| 75CTS1 Culture tube | 4 | 75 x 12 | PS/PE | IRR | 1 | 500 | |
| 75CTS Culture tube | 4 | 75 x 12 | PS/PE | IRR | 25 | 500 | |
| 100CTS1 Culture tube | 12 | 100 x 17 | PS/PE | IRR | 1 | 500 | |
| 100CTS Culture tube | 12 | 100 x 17 | PS/PE | IRR | 25 | 500 | |
| 75CTP1 Culture tube | 4 | 75 x 12 | PP/PE | IRR | 1 | 500 | |
| 75CTP Culture tube | 4 | 75 x 12 | PP/PE | IRR | 25 | 500 | |
| 100CTP1 Culture tube | 12 | 100 x 17 | PP/PE | IRR | 1 | 500 | |
| 100CTP Culture tube | 12 | 100 x 17 | PP/PE | IRR | 25 | 500 | |



transport system

Packaging System for Transportation of Infectious and Diagnostic Samples

- Safe and approved means of transporting infectious or diagnostic samples via post or carrier
- Packaging system has been tested to UN 6.2 for infectious substances
- Conforms to modal regulations RID/ADR* 2005 packaging instruction P620 for Category A infectious substances and meets International Air Transport Association (IATA) and International Civil Aviation Organisation (ICAO) packaging instruction P650 for the transport of Category B infectious substances by air
 - *ADR European agreement concerning the international carriage of dangerous goods by road
 - RID Regulations concerning the international carriage of dangerous goods by rail

System comprises:

- Inner primary container to contain the sample
- Outer secondary container to hold the primary container. Each secondary container incorporates an absorbent wad
- Expanded polystyrene foam (EPS) block to support 4 x secondary containers
- Robust fibreboard box and printed with required information/warnings
- Appropriate labels for either infectious or diagnostic samples
- Detailed set of instructions
- Two packaging systems are available:
 - System using12ml blood tubes as the primary container
 - System using 30ml universals as the primary container

System with 12ml Primary Containers

| Product Code | Description | Case Qty |
|-----------------|--|-------------|
| UNIS4/MCE1 | Complete transport packaging system: 4 x primary containers, 4 x secondary containers with absorbent wad, 1 x polystyrene block, 1 x fibre box, labels and instructions for use. | 12 |



mportant Note:

In order to comply with safety regulations, the complete system must be used. However, individual components can be ordered separately for replacement purposes

Individual Components

| Product Code | Description | Material | Case Qty |
|-----------------|--|----------|-------------|
| MCE200 | Primary container, 12ml | PP | 100 |
| MCE100 | Secondary container with absorbent wad | PE/Paper | 100 |
| MCE3 | Absorbent wad refill | Paper | 100 |

- Glass culture tubes (99449-16 tube, 9998-15 cap, see page 63) are also available as alternatives to the plastic primary container MCE200
- This system has also been UN tested and approved for use with Becton Dickinson's Vacutainer[®] blood tubes (glass and plastic tubes, sizes 13x75mm and 13x100mm).





transport system



System with 30ml Primary Containers

| Product Code | Description | Case Qty |
|-----------------|---|-------------|
| UNIS4/MCE4 | Complete transport packaging system: 4 x primary containers, 4 x secondary containers with absorbent wad, 1 x polystyrene block, 1 x fibre box, labels and instructions for use. | 12 |



Important Note:

In order to comply with safety regulations, the complete system must be used. However, individual components can be ordered separately for replacement purposes

| Product Code | Description | Material | Case Qty |
|-----------------|--|----------|-------------|
| 128B | Primary container, 30ml | PS/PP | 400 |
| MCE4 | Secondary container with absorbent wad | PE/Paper | 100 |
| MCE5 | Absorbent wad refill | Paper | 400 |

Glass Universals (UC/30, see page 20) are also available as alternatives to the plastic primary containers 128B



For further information on Sterilin transport systems please see page 107 of the Technical Information section

For more information about the Sterilin[®] disposable plastics range visit www.barloworld-scientific.com



Weighing Boats

weighing boats

Weighing Boats

- Manufactured from high impact polystyrene
- Radiused corners and sloping sides for complete sample transfer
- Hydrophobic surface ensures no absorption of water from atmosphere or sample
- Flat base for a secure, firm rest on the balance pan
- Choice of standard or anti-static boats

Weighing Boats, Standard, White, Diamond

- Flexible to allow the formation of a funnel for easy pouring to another vessel
- Suitable for coloured powders and samples

| Product Code | Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------------|------------------|--------------------|-----------|----------------------|-------------|
| 30311 | Weighing boat, small | 5 | 55 x 30 | NS | 500 | 1000 |
| 30314 | Weighing boat, medium | 30 | 80 x 60 | NS | 500 | 500 |
| 30317 | Weighing boat, large | 100 | 120 x 100 | NS | 250 | 250 |



Weighing Boats, Standard, White, Square

- Ideal for general purpose weighing
- Suitable for coloured powders and samples

| Product Code | Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------------|------------------|--------------------|-----------|----------------------|-------------|
| 30205 | Weighing boat, small | 7 | 44 x 44 | NS | 250 | 1000 |
| 30254 | Weighing boat, medium | 100 | 80 x 80 | NS | 250 | 1000 |
| 30304 | Weighing boat, large | 250 | 140 x 140 | NS | 250 | 1000 |



Weighing Boats, Standard, Black, Diamond

- Flexible to allow the formation of a funnel for easy pouring to another vessel
- Suitable for white powders and samples

| Product Code | Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------------|------------------|--------------------|-----------|----------------------|-------------|
| 30312 | Weighing boat, small | 5 | 55 x 30 | NS | 500 | 1000 |
| 30315 | Weighing boat, medium | 30 | 80 x 60 | NS | 500 | 500 |
| 30318 | Weighing boat, large | 100 | 120 x 100 | NS | 250 | 250 |



weighing boats

Weighing Boats, Standard, Black, Square

- Ideal for general purpose weighing
- Suitable for white powders and samples

| Product Description Code | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|---|------------------|--------------------|-----------|----------------------|-------------|
| 30206Weighing boat, small30255Weighing boat, mediu30305Weighing boat, large | 7 | 44 x 44 | NS | 250 | 1000 |
| | m 100 | 80 x 80 | NS | 250 | 1000 |
| | 250 | 140 x 140 | NS | 250 | 1000 |



Weighing Boats, Anti-Static

- Avoids the retention of powders by static electricity
- Raw material modified to significantly reduce the charge relaxation time in comparison to standard weigh boats. Majority of electrostatic charge dissipates within seconds when earthed on the balance pan
- Ideal for use with fine powders, eg talcum powder

Weighing Boats, Anti Static, White, Diamond

| Product Code | t Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------------------|------------------|--------------------|-----------|----------------------|-------------|
| 30331 | Anti-static boat, small | 5 | 55 x 30 | NS | 500 | 1000 |
| 30334 | Anti-static boat, medium | 30 | 80 x 60 | NS | 500 | 500 |
| 30337 | Anti-static boat, large | 100 | 120 x 100 | NS | 250 | 250 |



Weighing Boats, Anti-Static, White, Square

| Product Code | t Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------------------|------------------|--------------------|-----------|----------------------|-------------|
| 30321 | Anti-static boat, small | 7 | 44 x 44 | NS | 250 | 1000 |
| 30324 | Anti-static boat, medium | n 100 | 80 x 80 | NS | 250 | 1000 |
| 30327 | Anti-static boat, large | 250 | 140 x 140 | NS | 250 | 1000 |



weighing boats



Weighing Boats, Anti-Static, Black, Diamond

| Product Code | t Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------------------|------------------|--------------------|-----------|----------------------|-------------|
| 30332 | Anti-static boat, small | 5 | 55 x 30 | NS | 500 | 1000 |
| 30335 | Anti-static boat, medium | n 30 | 80 x 60 | NS | 500 | 500 |
| 30338 | Anti-static boat, large | 100 | 120 x 100 | NS | 250 | 250 |



Weighing Boats, Anti-Static, Black, Square

| Pro | | Description | Capacity (ml) | Dimensions (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----|-----|--------------------------|------------------|--------------------|-----------|----------------------|-------------|
| 303 | 322 | Anti-static boat, small | 7 | 44 x 44 | NS | 250 | 1000 |
| 303 | 325 | Anti-static boat, mediur | n 100 | 80 x 80 | NS | 250 | 1000 |
| 303 | 328 | Anti-static boat, large | 250 | 140 x 140 | NS | 250 | 1000 |



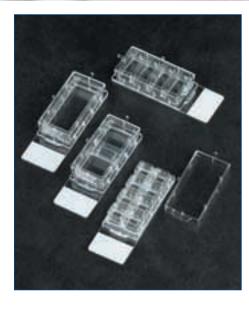
Weighing, Beakers

- Ideal for weighing small volumes of liquids
- Temperature resistant to 90°C
- Manufactured from high impact polystyrene
- Packed in handy dispensers for ease of use
- The 5ml and 20ml beaker are recommended for use with flame photometer samples

| Product Code | Description | Capacity (ml) | Sterility | Inner Pack Qty | Case Qty | |
|-----------------|-----------------|------------------|-----------|----------------------|-------------|--|
| 30353 | Weighing beaker | 5 | NS | 100 | 1000 | |
| 30403 | Weighing beaker | 10 | NS | 100 | 1000 | |
| 30452 | Weighing beaker | 20 | NS | 100 | 500 | |
| 30502 | Weighing beaker | 50 | NS | 100 | 500 | |



WAKI Cell Biology



Chamber Slides

- Polystyrene chamber attached to a glass microscope slide by means of a non-toxic silicone rubber
- Ideal for the culture, fixation, staining and observation of cells all on one slide
- Independent chambers help simultaneous multi-cultures with low risk of crosscontamination
- Plastic chambers can be removed following culture
- Supplied sterile in easy to open tray packaging

| Product Code | Description | No of Chambers | | Chamber Dimensions (mm) | Material Chamber/Slide | Sterility | Inner Pack Qty | |
|-----------------|---------------|-------------------|-----|-------------------------------|---------------------------|-----------|----------------------|----|
| 5700-001 | Chamber slide | 1 | 10 | 19 x 44 | PS/Glass | EO | 10 | 20 |
| 5710-002 | Chamber slide | 2 | 4.5 | 19 x 19 | PS/Glass | EO | 10 | 20 |
| 5720-004 | Chamber slide | 4 | 2 | 9 x 19 | PS/Glass | EO | 10 | 20 |
| 5730-008 | Chamber slide | 8 | 1 | 9 x 9 | PS/Glass | EO | 10 | 20 |



Do not sterilise in autoclave

Do not use with organic solvents

Dishes, Tissue Culture Treated

- Manufactured from optically clear, premium grade, non-toxic virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Feature a special tissue culture (TC) treatment that ensures optimum cell attachment and growth
- Stacking rings for stability and vents for improved gas exchange
- An easy grip feature on all 35, 60, and 150mm dishes facilitates ease of handling
- Thick, flat bases enhance optical clarity and reduce bowing. Dish lids are untreated to minimise condensation

| Product Code | Description | OD x Height (mm) | Growth Area (cm²) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------|---------------------|-------------------------|-----------|----------------------|-------------|
| 3000-035 | Tissue culture dish | 35 x 10 | 9 | IRR | 10 | 300 |
| 3010-060 | Tissue culture dish | 60 x 15 | 21 | IRR | 10 | 300 |
| 3020-100 | Tissue culture dish | 100 x 20 | 55 | IRR | 10 | 300 |
| 3030-150 | Tissue culture dish | 150 x 20 | 148 | IRR | 5 | 60 |

Dishes, Non-Treated

- Manufactured from optically clear, premium grade, non-toxic virgin polystyrene
- Assured sterile by gamma irradiation and are certified non-pyrogenic to less than 0.5EU/ml
- Ideal for suspension cultures or plant cell culture
- Stacking rings for stability and vents for improved gas exchange
- An easy grip feature on all 35, 60, and 150mm dishes facilitates ease of handling
- Thick, flat bases enhance optical clarity and reduce bowing

| Product Code | Description | OD x Height (mm) | Growth Area (cm²) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------|---------------------|-------------------------|-----------|----------------------|-------------|
| 1000-035 | Tissue culture dish | 35 x 10 | 9 | IRR | 10 | 300 |
| 1010-060 | Tissue culture dish | 60 x 15 | 21 | IRR | 10 | 300 |
| 1020-100 | Tissue culture dish | 100 x 20 | 55 | IRR | 10 | 300 |
| 1030-150 | Tissue culture dish | 150 x 20 | 148 | IRR | 5 | 60 |



For our extensive range of glass based products for use with confocal microscopes, please refer to page 77 & 78



ELISA/Assay Plates, High Binding

- Manufactured from high clarity virgin polystyrene
- Flat or round base well designs
- Uniform plate thickness for precise optical clarity and low background interference
- Alpha-numeric labelling for fast, accurate identification and measurement
- Chimney well design minimises the risk of cross contamination
- Low evaporation lid or sealing film available
- Compatible with standard microplate washers, dispensers and readers

| Product Code | Description | Base | Material | Well ID x Depth (mm) | Well Capacity (ml) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------|-------|----------|----------------------------|--------------------------|-----------|----------------------|-------------|
| 3801-096 | ELISA plate 96 well | Flat | PS | 6.4 x 10.8 | 0.35 | IRR | 10 | 50 |
| 3802-096 | ELISA plate 96 well | Round | PS | 6.9 x 10.8 | 0.35 | IRR | 10 | 50 |
| 1803-096 | Lid for 3801, 3802 | - | PS | - | - | NS | 1 | 50 |
| 1804-096 | Sealing film | - | PET | - | - | NS | 50 | 50 |
| | (83 x 134mm) | | | | | | | |

ELISA/Assay Plates, Low Binding

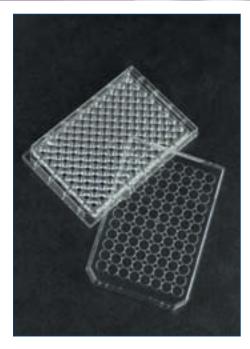
- Flat or round base well designs
- Uniform plate thickness for precise optical clarity and low background interference
- Alpha-numeric labelling for fast, accurate identification and measurement
- Chimney well design minimises the risk of cross contamination
- Low evaporation lid or sealing film available
- PVC assay plate is a flexible alternative to polystyrene and provides faster transfer of heat for PCR reactions
- Compatible with standard microplate washers, dispensers and readers

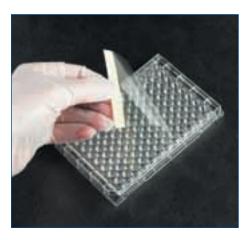
| Product Code | Description | Base | Material | Well ID x Depth (mm) | Well Capacity (ml) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|----------------------------------|-------|----------|----------------------------|--------------------------|-----------|----------------------|-------------|
| 3881-096 | Assay plate 96 well | Flat | PS | 6.4 x 10.8 | 0.35 | NS | 10 | 50 |
| 3882-096 | Assay plate 96 well | Round | PS | 6.9 x 10.8 | 0.35 | NS | 10 | 50 |
| 3883-096 | Assay plate 96 well, Flexible | Flat | PVC | 6.4 x 10.8 | 0.35 | NS | 10 | 50 |
| 1803-096 | Lid for 3881, 3882 | - | PS | - | - | NS | 1 | 50 |
| 1804-096 | Sealing film (83 x 134mm) | - | PET | - | - | NS | 50 | 50 |



For our extensive range of glass based products for use with confocal microscopes, please refer to page 77 & 78

For information on specific application for each well shape and the details on the binding capacity of the Iwaki ELISA plates please refer to page 104 of the Technical Information section







Filters, Syringe

- Tissue culture grade filters have been designed to meet the exacting standards of today's cell biologists
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Choice of filter housing and membrane pore size to satisfy most filtration requirements
- Cellulose acetate membrane that is both detergent free and low binding
- Transparent acrylic membrane housing available for improved visual inspection
- Membrane support permits positive or negative filtration
- Designed with minimum dead space to reduce sample loss
- Supplied in individual blister packs and ready for use
- PES membrane available for faster flow rates and low protein binding
- Recommended for sterile filtering of protein solutions, tissue culture media and additives

| Product Descrip Code | tion Membrane Diameter (mm) | Membrane Material | | Housing Material | | Residual Volume (ml) | Inner Pack Qty | Case Qty |
|-------------------------|-----------------------------------|----------------------|------|---------------------|-------|----------------------------|----------------------|-------------|
| 2012-013 Syringe | filter 3 | CA | 0.22 | PP | 0.5 | 0.01 | 1 | 50 |
| 2032-013 Syringe | filter 13 | CA | 0.22 | PP | 12.0 | 0.07 | 1 | 50 |
| 2052-025 Syringe | filter 25 | CA | 0.22 | AC | 61.2 | 0.21 | 1 | 50 |
| 2053-025 Syringe | filter 25 | CA | 0.45 | AC | 94.6 | 0.21 | 1 | 50 |
| 2132-050 Syringe | filter 50 | CA | 0.22 | PP | 170.0 | 1.00 | 1 | 10 |
| 2055 033 Syringe | filter 33 | PES | 0.22 | AC | 175.0 | 0.10 | 1 | 50 |



Need suitable bottles for the storage of media? See Pyrex® Media bottles on page 90 of this catalogue

Flasks, Tissue Culture Treated, Two-Position Cap

- Features a special tissue culture surface treatment that ensures optimum cell anchorage and growth
- Manufactured from clear, premium grade, non-toxic, virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Each flask is pressure tested to ensure leak free performance
- Two-position cap enables an airtight seal or manual venting
- The wide neck design allows easy pipetting and cell scraping on all flask sizes
- Moulded graduations facilitate accurate filling

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- Anti-tilt skirts, stacking rims and feet for extra stability
- Resealable inner packaging to protect unused product
- Lot number etched into 25, 75 and 150cm² product to ensure complete traceability

| Product Code | Description | Surface Area (cm²) | Neck | Capacity (ml) | Inner Pack Qty | Case Qty |
|-----------------|----------------------------|--------------------------|----------|------------------|----------------------|-------------|
| 3100-025 | Tissue culture flask | 25 | Canted | 70 | 10 | 300 |
| 3102-025 | Tissue culture flask, slim | 25 | Canted | 60 | 10 | 300 |
| 3110-075 | Tissue culture flask | 75 | Canted | 270 | 5 | 100 |
| 3120-150 | Tissue culture flask | 150 | Canted | 600 | 5 | 40 |
| 3160-225 | Tissue culture flask | 225 | Straight | 900 | 5 | 25 |

Accessory cell scraper available, please refer to page 79 product code 9010-320

For our extensive range of substrate coated products please refer to pages 80 & 81









Flasks, Tissue Culture Treated, Filter-Vented Cap

- Filter vented caps feature a 0.2µm hydrophobic membrane that eliminates bacterial and fungal contamination
- Manufactured from clear, premium grade, non-toxic, virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Each flask is pressure tested to ensure leak free performance
- The wide neck design allows easy pipetting and cell scraping on all flask sizes
- Moulded graduations facilitate accurate filling
- Anti-tilt skirts, stacking rims and feet for extra stability
- Resealable inner packaging to protect unused product
- Lot number etched into 25, 75 and 150cm² product to ensure complete traceability
- Suitable for cultures requiring constant gas exchange with the cap fully sealed
- Ideally suited for use in CO₂ incubators
- Features a special tissue culture surface treatment that ensures optimum cell anchorage and growth
- Each flask is supplied in sterile, easy to open, resealable packaging

| | Gas | |
|----------|--------|---|
| Microbes | Liquid | L |

Vented Cap

| Product Code | Description | Surface Area (cm²) | Neck | Capacity (ml) | Inner Pack Qty | Case Qty |
|-----------------|----------------------------|--------------------------|----------|------------------|----------------------|-------------|
| 3103-025 | Tissue culture flask | 25 | Canted | 70 | 10 | 300 |
| 3113-025 | Tissue culture flask, slim | 25 | Canted | 60 | 10 | 300 |
| 3123-075 | Tissue culture flask | 75 | Canted | 270 | 5 | 100 |
| 3133-150 | Tissue culture flask | 150 | Canted | 600 | 5 | 40 |
| 3143-225 | Tissue culture flask | 225 | Straight | 900 | 5 | 25 |



Flasks, Non-Treated, Two-Position Cap

- Hydrophobic surface ideally suited for hybridoma and suspension cell cultures
- Manufactured from clear, premium grade, non-toxic, virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Each flask is pressure tested to ensure leak free performance
- Two-position cap enables an airtight seal or manual venting
- The wide neck design allows easy pipetting and cell scraping on all flask sizes
- Accurate graduations are moulded into each flask facilitating filling
- Anti-tilt skirts, stacking rims and feet for extra stability
- Small inner pack sizes with resealable packaging to protect unused product
- Lot number etched into 25, 75 and 150cm² product to ensure complete traceability

| | oduct ode | Description | Surface Area (cm²) | Neck | Capacity (ml) | Inner Pack Qty | Case Qty |
|----|--------------|----------------------|--------------------------|----------|------------------|----------------------|-------------|
| 11 | 100-025 | Tissue culture flask | 25 | Canted | 70 | 10 | 300 |
| 11 | 110-075 | Tissue culture flask | 75 | Canted | 270 | 5 | 100 |
| 11 | 160-225 | Tissue culture flask | 225 | Straight | 900 | 5 | 25 |



Non treated flasks have a white cap for ease of identification. Outer packaging is also clearly marked 'NON TREATED'

Glass Based, Dishes AS RECOMMENDED BY

- Glass or quartz coverslip attached to the base of a 35mm polystyrene dish with non-toxic silicone adhesive
- Specifically designed for the fluorescent measurement of live and dead cells at a higher magnification than that achievable through plastic dishes
- Quartz based dishes allow higher transmittance and measurement of lower fluorescence
- Ideal for confocal laser microscope studies
- Glass/quartz thickness 0.175 +/- 0.02mm
- Supplied sterile

| Product Code | Description | Base Material | Coverslip Diameter (mm) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------------|------------------|-------------------------------|-----------|----------------------|-------------|
| 3900-035 | Quartz based dish | Quartz | 27 | EO | 1 | 50 |
| 3901-035 | Quartz based dish | Quartz | 12 | EO | 1 | 50 |
| 3930-035 | Glass based dish | Glass | 27 | EO | 1 | 20 |
| 3931-035 | Glass based dish | Glass | 12 | EO | 1 | 20 |

Transmittance

| Material | Wavelength (nm) | | | | | | | |
|----------|-----------------|------|------|------|--|--|--|--|
| | 200 | 300 | 350 | 400 | | | | |
| Quartz | 90.9 | 91.6 | 92.3 | 93.2 | | | | |
| Glass | 0.0 | 12.9 | 89.2 | 90.0 | | | | |

Fluorescence (Relative value); Excitation wavelength 340 mm

| Material | | | | gth (nm) | h (nm) | | |
|----------|-----|------|------|----------|--------|------|------|
| | 380 | 400 | 420 | 440 | 460 | 480 | 500 |
| Quartz | 5.7 | 8.6 | 10.3 | 6.3 | 4.0 | 2.4 | 2.1 |
| Glass | 9.7 | 16.3 | 20.1 | 15.2 | 12.4 | 11.5 | 14.1 |

Do not sterilise in autoclave. Do not use with organic solvents

Glass Based, Assay Plates AS RECOMMENDED BY

- Specifically designed for studying cellular interactions at the molecular level at a higher magnification than is achievable through plastic plates
- Superior optical clarity over conventional polystyrene alternatives makes them ideal for high transmittance microscope scanning
- Glass thickness 0.175 +/- 0.02mm
- Chimney well design reduces cell-to-cell contamination
- Low fluorescent background and black pigment reduces 'cross-talk'
- Especially suitable for use with confocal microscopy
- Low base design ensures readability of all wells by inverted microscopes
- Designed for applications such as:
 - Receptor-ligand detection through fluorescent probes
 - Cell based assays
 - Low-end sensitivity detections

| Proc Cod | | Description | | | | Growth Area (cm2) | Lid | Sterility | Inner Pack Qty | Case Qty |
|-------------|-------|----------------------------|-----|------|-----|-------------------------|------|-----------|----------------------|-------------|
| 5882 | 2-096 | Glass based assay plate | 96 | Flat | 300 | 0.32 | None | NS | 5 | 10 |
| 5883 | 3-384 | Glass based assay plate | 384 | Flat | 120 | 0.10 | None | NS | 5 | 10 |

Imaging plane from bottom of plate < 0.5mm. Flatness across focal plane100µm





Photograph of confocal microscope courtesy of Leica Microsystems. For more information please go to www.leica-microsystems.com



Barloworld Scientific



Glass Based, Culture Plates AS RECOMMENDED BY

- Specifically designed for tissue culture applications linked with the observation of cells using confocal microscopy with fluorescent probes and multi point microscopes
- Superior optical clarity over conventional polystyrene alternatives makes them ideal for high transmittance microscope scanning
- Glass thickness 0.175 +/- 0.02mm
- Chimney well design reduces well to well contamination
- Low fluorescent background and black pigment reduces 'cross-talk'
- Especially suitable for use with confocal microscopy
- Supplied sterile

| Product Code | Description | No of Wells | Well Base | Colour | Lid | Growth Area (cm²) | Sterility | Inner Pack Qty | Case Qty |
|-----------------|---------------------------|----------------|--------------|--------|-----|-------------------------|-----------|----------------------|-------------|
| 5816-006 | Glass based culture plate | 6 | Flat | Black | Yes | 1.90 | EO | 1 | 10 |
| 5826-024 | Glass based culture plate | 24 | Flat | Black | Yes | 0.76 | EO | 1 | 10 |
| 5866-096 | Glass based culture plate | 96 | Flat | Black | Yes | 0.33 | EO | 1 | 10 |



Do not sterilise in autoclave. Do not use with organic solvents

For our extensive range of substrate coated glass based culture plates please refer to pages 80 & 81



Multiwell Plates, Tissue Culture Treated

- Manufactured from premium grade virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Suitable for single cell isolation through cell culture scale up
- Special surface treatment for optimal cell attachment and growth
- Raised well rims and chimney well design greatly reduce the risk of cross contamination
- Non-reversible lids minimising contamination from condensation
- Each well is alphanumerically labelled

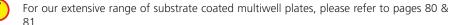
| Product Code | No of Wells | Well Base | Lid | Well ID x Depth (mm) | Well Capacity (ml) | Growth Area (cm²) | Inner Pack Qty | Case Qty |
|-----------------|----------------|--------------|-----|----------------------------|--------------------------|-------------------------|----------------------|-------------|
| 3810-006 | 6 | Flat | Yes | 34.6 x 17.5 | 16 | 9.4 | 1 | 50 |
| 3815-012 | 12 | Flat | Yes | 22.1 x 17.5 | 6.5 | 3.8 | 1 | 50 |
| 3820-024 | 24 | Flat | Yes | 15.5 x 17.3 | 3.4 | 2.0 | 1 | 50 |
| 3830-048 | 48 | Flat | Yes | 11.2 x 17.1 | 1.76 | 0.98 | 1 | 50 |
| 3860-096 | 96 | Flat | Yes | 6.4 x 10.8 | 0.35 | 0.32 | 1 | 50 |
| 3861-096 | 96 | Flat | Yes | 6.4 x 10.8 | 0.35 | 0.32 | 10 | 50 |
| 3870-096 | 96 | Round | Yes | 6.9 x 10.8 | 0.35 | - | 1 | 50 |



Pre-bar coded plates are available to special order. Please contact the Barloworld Scientific Customer Service Department for further details



Accessory cell scraper available for 6, 12 and 24 well plates. Please refer to page 79, product code 9000-220



Barloworld Scientific

Multi-Well Plates, Non-Treated

- Ideal for hybridoma or lymphocyte culture
- Manufactured from premium grade virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Suitable for single cell isolation through to cell culture scale up
- Raised well rims and chimney well design greatly reduce the risk of cross contamination
- Non-reversible lids minimising contamination from condensation
- Each well is alphanumerically labelled

| Product N Code V | o of Vells | Well Base | Lid | Well ID x Depth (mm) | Well Capacity (ml) | Growth Area (cm²) | Inner Pack Qty | Case Qty |
|---------------------|---------------|--------------|-----|----------------------------|--------------------------|-------------------------|----------------------|-------------|
| 1820-024 | 24 | Flat | Yes | 15.5 x 17.3 | 3.4 | 2.0 | 1 | 50 |
| 1830-048 | 48 | Flat | Yes | 11.2 x 17.1 | 1.76 | 0.98 | 1 | 50 |
| 3875-096 | 96 | Round | No | 6.9 x 10.8 | 0.35 | - | 1 | 50 |



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Pre-bar coded plates are available to special order. Please contact the Barloworld Scientific Customer Service Department for further details

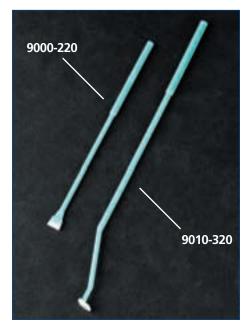
Pipettes

For a full range of pipettes for tissue culture please refer to page 37

Scrapers

- For the mechanical harvesting of cells
- Gentle silicone rubber blades
- Flask scraper with rotating blade for corners, for use with 75, 150 and 225cm² flasks
- Dish scraper with fixed blade for 6, 12 and 24 well plates and dishes

| Product Code | Description | Blade Width x Length (mm) | | Sterility | Inner Pack Qty | |
|-----------------|---------------------------------------|------------------------------|---------------------------|-----------|----------------------|-----|
| 9000-220 | Cell scraper for plates and dishes | 11 x 220 | Silicone Rubber/ABS resin | IRR | 1 | 100 |
| 9010-320 | Cell scraper for flasks | 12 x 320 | Silicone Rubber/ABS resin | IRR | 1 | 100 |



Substrate Coated Products

- Iwaki protein substrate coated products promote differentiation of cultured cells
- The range supports both endothelial and exothelial cell growth
- Choice of Collagen, Poly-L-Lysine, Poly-Ethylene-Imine, Fibronectin, or Gelatin coated flasks, dishes and multiwell plates
- No refrigeration required
- All products are expiry dated



Storage temperature of all substrate coated products should not be higher than 25°C Avoid storage in areas of high humidity



Rapid temperature changes and exposure to UV irradiation may reduce the shelf life of the products

Collagen Type 1 Coated Products

- Collagen Type 1 coated ware promotes excellent growth in the culturing of human keratinocytes, rat liver cells and mouse dorsal root ganglia neuron in serum free media
- Source pig tendon
- Improves survival of primary cell cultures
- Improves cell attachment and increases cell proliferation rate for a variety of mammalian cells
- Suitable for the following applications:
 - Cell adhesion assays
 - Studies of effect of Collagen Type 1 on cells

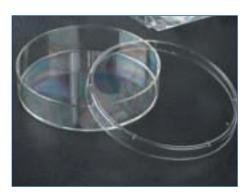
| Product Code | Description | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------------------------------|-----------|----------------------|-------------|
| 4000-010 | Dish, 35mm | AS | 10 | 200 |
| 4010-010 | Dish, 60mm | AS | 10 | 200 |
| 4020-010 | Dish, 100mm | AS | 10 | 120 |
| 4030-010 | Dish, 150mm | AS | 5 | 10 |
| 4810-010 | Plate, 6 well | AS | 1 | 20 |
| 4815-010 | Plate, 12 well | AS | 1 | 20 |
| 4820-010 | Plate, 24 well | AS | 1 | 20 |
| 4860-010 | Plate, 96 well | AS | 1 | 20 |
| 4100-010 | Flask, 25cm ² | AS | 10 | 60 |
| 4110-010 | Flask, 75cm ² | AS | 5 | 10 |
| 4160-010 | Flask, 225cm ² | AS | 5 | 10 |
| 4822-010 | Glass based culture plate, 24 wells | AS | 1 | 10 |
| 4832-010 | Glass based culture plate, 48 wells | AS | 1 | 10 |
| 4862-010 | Glass based culture plate, 96 wells | AS | 1 | 10 |

Fibronectin Coated Products

- Fibronectin coated dishes are suitable for culturing fibroblasts, hepatocytes and nerve cells in serum free media
- Source fetal plasma
- Promotes cell attachment and proliferation

| Product Code | Description | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-------------|-----------|----------------------|-------------|
| 4000-030 | Dish, 35mm | AS | 10 | 60 |
| 4010-030 | Dish, 60mm | AS | 10 | 40 |
| 4020-030 | Dish, 100mm | AS | 10 | 40 |

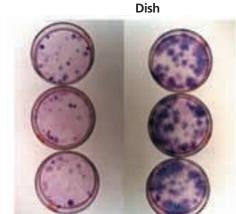




Gelatin Coated Products

- Improves cell attachment
- Source pig skin
- Ideal for primary cultures of myoblasts, liver cells or human endothelial cells

| Product Code | Description | Sterility | Inner Pack Qty | Case Qty |
|-----------------|--------------------------|-----------|----------------------|-------------|
| 4000-020 | Dish, 35mm | AS | 10 | 200 |
| 4010-020 | Dish, 60mm | AS | 10 | 200 |
| 4020-020 | Dish, 100mm | AS | 10 | 120 |
| 4810-020 | Plate, 6 well | AS | 1 | 20 |
| 4815-020 | Plate, 12 well | AS | 1 | 20 |
| 4820-020 | Plate, 24 well | AS | 1 | 20 |
| 4860-020 | Plate, 96 well | AS | 1 | 20 |
| 4100-020 | Flask, 25cm ² | AS | 10 | 60 |



Gelatin Coated

Non Coated Dish



Poly-L-Lysine Coated Products

- Suitable for primary culture of neuronal cells and transfected cell lines
- Source chemically synthetic amino acid
- Suitable applications include:
 - -Attachment and proliferation of a variety of cell lines
 - -Cell differentiation and neurite outgrowth
 - -Improving survival of primary neurons in culture

| - | Product Code | Description | Sterility | Inner Pack Qty | Case Qty |
|----|-----------------|------------------------------------|-----------|----------------------|-------------|
| 4(| 000-040 | Dish, 35mm | AS | 10 | 200 |
| 4(| 010-040 | Dish, 60mm | AS | 10 | 200 |
| 4(| 020-040 | Dish, 100mm | AS | 10 | 120 |
| 48 | 322-040 | Glass based culture plate, 24 well | AS | 1 | 10 |
| 48 | 332-040 | Glass based culture plate, 48 well | AS | 1 | 10 |
| 48 | 362-040 | Glass based culture plate, 96 well | AS | 1 | 10 |

Poly-Ethylene Imine Coated Products



- Particularly suitable for primary culture of neurons
- Source chemically synthetic amino acid
- Suitable applications include:

-Attachment and spreading of a variety of cell lines -Cell differentiation and neurite outgrowth -Improving survival of primary neurons in culture

| Product Code | Description | Sterility | Inner Pack Qty | Case Qty |
|-----------------|------------------------------------|-----------|----------------------|-------------|
| 4816-060 | Glass based culture plate, 24 well | AS | 1 | 10 |
| 4826-060 | Glass based culture plate, 48 well | AS | 1 | 10 |
| 4866-060 | Glass based culture plate, 96 well | AS | 1 | 10 |



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For more information on the suitability of different cell types on each substrate coated product, please refer to page 98 of the Technical Information section





Thin Collagen Gel Membrane

- Novel Scaffold for three dimensional cell culture
- Uniform 20µm (re-hydrated) membrane attached to nylon ring to maintain structure
- Transparent, allowing for easy microscopic observation
- Enhanced gel strength enabling easy handling
- Excellent permeability enabling cell-cell interactions cultured on opposite sides of the membrane

| Product Description Code (| OD (mm) | Diameter of Transparent Area (mm) | Material Membrane/ Ring | Sterility | Inner Case Qty | Case Qty |
|--|------------|---|-------------------------------|-----------|----------------------|-------------|
| VIT-C001 Thin Collagen Gel Membrane | 33 | 24 | Collagen Gel/ Nylon | IRR | 1 | 6 |

Tubes, Culture

For a full range of glass culture tubes please refer to pages 63 & 64

For a full range of plastic culture tubes please refer to page 64







Tubes, Centrifuge, 15ml

Recommended RCF values:

Polypropylene 15ml centrifuge tubes 9,400 x g Polystyrene 15ml centrifuge tubes 1,800 x g

- Manufactured from clear polystyrene or opaque polypropylene
- Printed graduations and flat top triple sealed, HDPE cap
- Assured sterile by gamma irradiation and certified non-pyrogenic (<0.5EU/ml)
- Available in racks or convenient, easy to open re-sealable bulk packaging

| Product Code | Description Ca | apacity (ml) | Racked/ Bulk | Material Base/Cap | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------|-----------------|-----------------|----------------------|-----------|----------------------|-------------|
| 2322-015 | Centrifuge tube | 15 | Racked | PS/HDPE | IRR | 50 | 500 |
| 2324-015 | Centrifuge tube | 15 | Bulk | PS/HDPE | IRR | 25 | 500 |
| 2323-015 | Centrifuge tube | 15 | Racked | PP/HDPE | IRR | 50 | 500 |
| 2325-015 | Centrifuge tube | 15 | Bulk | PP/HDPE | IRR | 25 | 500 |

Tubes, Centrifuge, 50ml

- Recommended RCF values:
 - Polypropylene 15ml centrifuge tubes 9,400 x g
 - Polystyrene 15ml centrifuge tubes 1,500 x g
- Manufactured from clear polystyrene or opaque polypropylene
- Printed graduations and flat top, triple sealed, HDPE cap
- Assured sterile by gamma irradiation and certified non-pyrogenic (<0.5EU/ml)
- Available in racks or convenient, easy to open, re-sealable bulk packaging

| Product Code | Description Ca | pacity (ml) | Racked/ Bulk | Material Base/Cap | Sterility | Inner Pack Qty | Case Qty |
|-----------------|-----------------|----------------|-----------------|----------------------|-----------|----------------------|-------------|
| 2342-050 | Centrifuge tube | 50 | Racked | PS/HDPE | IRR | 25 | 300 |
| 2344-050 | Centrifuge tube | 50 | Bulk | PS/HDPE | IRR | 10 | 300 |
| 2343-050 | Centrifuge tube | 50 | Racked | PP/HDPE | IRR | 25 | 300 |
| 2345-050 | Centrifuge tube | 50 | Bulk | PP/HDPE | IRR | 10 | 300 |



For a further range of centrifuge tubes suitable for tissue culture applications, please refer to the Sterilin range on page 60



Complementary Products

azlon[®]-reusable plastic labware





Basket

- Strong and lightweight ideal for draining, storage or autoclaving
- Manufactured from polypropylene, offering good chemical resistance
- Autoclavable at 135°C
- Stackable for ease of storage when not in use

| Product Code | Dimensions l x w x h (mm) | Nominal Capacity (L) | Pack Qty |
|-----------------|---------------------------------|-------------------------|-------------|
| TWR200 | 400 x 300 x 100 | 10 | 1 |

Azlon

Azlon

Azlon

Beakers

- Ideal for general laboratory use
- Straight sided design easy to handle
- Manufactured from polypropylene can withstand temperatures of up to 135°C and offers good chemical resistance
- Graduations in solvent resistant ink for maximum durability and ease of visibility

| Product Code | Capacity (ml) | Sub Divisions (ml) | OD (mm) | ID (mm) | Height (mm) | Pack Qty |
|-----------------|------------------|-----------------------|------------|------------|----------------|-------------|
| BDA208P | 10 | 1 | 32 | 30 | 32 | 10 |
| BDA212P | 25 | 2.5 | 42 | 40 | 40 | 10 |
| BDA218P | 50 | 5 | 51 | 49 | 51 | 10 |
| BDA224P | 100 | 10 | 62 | 60 | 62 | 10 |
| BDA234P | 400 | 50 | 94 | 92 | 95 | 10 |
| BDA236P | 500 | 50 | 100 | 96 | 101 | 10 |
| BDA238P | 600 | 50 | 106 | 101 | 107 | 5 |
| BDA240P | 1000 | 100 | 127 | 123 | 126 | 5 |
| BDA242P | 2000 | 200 | 158 | 154 | 160 | 1 |



Cylinders, Squat Form

- Squat design for increased stability on the bench and ease of handling particularly in restricted spaces
- Unique self-draining base eliminates water collection during cleaning in an automatic washing machine - removing spill, re-wetting and contamination issues
- Moulded graduations overprinted with ink for maximum durability and visibility
- High clarity polypropylene safe and unbreakable
- Anti suction base no problems when working on wet surfaces

| Product Code | Capacity (ml) | Cylinder OD (mm) | Height (mm) | Sub Divisions (ml) | Tol +/- (ml) | Pack Qty |
|-----------------|------------------|------------------------|----------------|--------------------------|-----------------|-------------|
| CPS0100P | 100 | 39 | 160 | 2 | 2.0 | 5 |
| CPS0250P | 250 | 54 | 190 | 5 | 5.0 | 1 |
| CPS0500P | 500 | 68 | 215 | 10 | 10.0 | 1 |
| CPS1000P | 1000 | 80 | 282 | 20 | 20.0 | 1 |



Exposure to temperatures over 80°C may affect accuracy over time

azlon®-reusable plastic labware

Ice Buckets

- Manufactured from durable polyurethane skinned foam
- Excellent insulating properties ensure suitability for the storage of dry-ice, water-ice and salt solutions
- Integral handles for safe and easy handling
- Capacity 4.5 litres
- Available in a choice of colours

| Product Code | Description | Colour | H x W (mm) | Pack Qty |
|-----------------|------------------|--------|---------------|-------------|
| IBB001P | Ice Bucket & Lid | Black | 185 x 330 | 1 |
| IBB002P | Ice Bucket & Lid | Blue | 185 x 330 | 1 |
| IBB003P | Ice Bucket & Lid | Green | 185 x 330 | 1 |

Petri Dish Stand

- Ideal for small batch incubation and movement of dishes
- Holds up to six 90mm Petri dishes
- Manufactured from epoxy-coated steel
- Autoclavable at 121°C

| Product Code | Colour | Pack Qty |
|-----------------|--------|-------------|
| SWP062 | White | 1 |

Wash Bottles, Tracker

- Designed with a series of designated labelled areas:
 - Allows traceability of solutions
 - Meets the labelling requirements of the CPA
- Self adhesive COSHH labels supplied with all bottles
- Manufactured from low density polyethylene
- DripLok® versions incorporate vapour venting valve system for safe use with volatile solvents

| Product Code | Capacity (ml) | Closure Colour | Closure Type | Pack Qty |
|-----------------|------------------|-------------------|-----------------|-------------|
| WTR250P | 250 | Green | Standard | 5 |
| WTR500P | 500 | Green | Standard | 5 |
| WTR250VT | 250 | Red | DripLok | 5 |
| WTR500VT | 500 | Red | DripLok | 5 |

| Product Code | Description | Pack Qty |
|-----------------|---|-------------|
| WGWPEN01 | Indelible marker pen – ideal for use with TRACKER Wash Bottles | 2 |

Azlon

Azlon







esco[®] - silicone products



Silicone Rubber Tubing, Premier Grade **ESCO**

- Superior silicone tubing for medical, pharmaceutical and food applications where high integrity is paramount
- Platinum-cured tubing with significant benefits over peroxide-cured material:
 - Smoother inner surface resulting in less protein binding
 - Fewer potential leachables
 - No contaminating by-products formed during curing (peroxide residues)
 - Superior clarity
- Batch code laser-etched along full length of tubing for full traceability
- "Double bagged" so ideally suited to applications where both inner and outer clean-room environments exist
- Suitable for use with peristaltic pumps
- Suitable for autoclaving or dry heat sterilisation
- Manufactured under clean room (Class 7 ISO 14644) conditions

Certification

USP Class VI FDA 177.2600 Food Contact ISO 10993-1.1992 European Pharmacopoea 3.1.9 BS2755 Dimensional Tolerances BS2848 Electrical Standard

| Product | Bore Size | Wall Thickness | O.D. | Length Code |
|-------------|-----------|----------------|------|-------------|
| (mm) | (mm) | (mm) | (m) | Length Code |
| | . , | | | 45 |
| PRM0050100P | 0.5 | 1 | 2.5 | 15 |
| PRM0100100P | 1 | 1 | 3 | 15 |
| PRM0100160P | 1 | 1.6 | 4.2 | 15 |
| PRM0100200P | 1 | 2 | 5 | 15 |
| PRM0160160P | 1.6 | 1.6 | 4.8 | 15 |
| PRM0200100P | 2 | 1 | 4 | 15 |
| PRM0300100P | 3 | 1 | 5 | 15 |
| PRM0300160P | 3 | 1.6 | 6.2 | 15 |
| PRM0400100P | 4 | 1 | 6 | 15 |
| PRM0400160P | 4 | 1.6 | 7.2 | 15 |
| PRM0400200P | 4 | 2 | 8 | 15 |
| PRM0500100P | 5 | 1 | 7 | 15 |
| PRM0500160P | 5 | 1.6 | 8.2 | 15 |
| PRM0600160P | 6 | 1.6 | 9.2 | 15 |
| PRM0630160P | 6.3 | 1.6 | 9.5 | 15 |
| PRM0630200P | 6.3 | 2 | 10.3 | 15 |
| PRM0630250P | 6.3 | 2.5 | 11.3 | 15 |
| PRM0630320P | 6.3 | 3.2 | 12.7 | 15 |
| PRM0800160P | 8 | 1.6 | 11.2 | 15 |
| PRM0800200P | 8 | 2 | 12 | 15 |
| PRM0800250P | 8 | 2.5 | 13 | 15 |
| PRM0800400P | 8 | 4 | 16 | 15 |
| PRM0900250P | 9 | 2.5 | 14 | 15 |
| PRM0900320P | 9 | 3.2 | 15.4 | 15 |
| PRM1000200P | 10 | 2 | 14 | 15 |
| PRM1270320P | 12.7 | 3.2 | 19.1 | 15 |
| PRM1600320P | 16 | 3.2 | 22.4 | 15 |

Other sizes available to special order - please e-mail esco@barloworld-scientific.com

esco[®] - silicone products

ESCO

ESCO

Silicone Rubber Stoppers

- Suitable for sealing glass and plastic flasks
- Ideal for use with biological solutions
- Manufactured from FDA approved material
- Suitable for use over a wide temperature range: 50°C to 200°C

| Product Code | BS Stopper | Top Dia (mm) | Bottom Dia (mm) | Length (mm) | Pack Qty |
|-----------------|---------------|-----------------|--------------------|----------------|-------------|
| TSRBGE010 | 10 | 12.5 | 10.0 | 20.0 | 10 |
| TSRBGE011 | 11 | 14.0 | 11.0 | 24.0 | 10 |
| TSRBGE013 | 13 | 16.0 | 13.0 | 24.0 | 10 |
| TSRBGE015 | 15 | 18.0 | 15.0 | 24.0 | 10 |
| TSRBGE019 | 19 | 22.5 | 19.0 | 28.0 | 10 |
| TSRBGE021 | 21 | 24.5 | 21.0 | 28.0 | 1 |
| TSRBGE023 | 23 | 26.5 | 23.0 | 28.0 | 1 |
| TSRBGE027 | 27 | 31.0 | 27.0 | 32.0 | 1 |
| TSRBGE037 | 37 | 42.5 | 37.0 | 38.5 | 1 |
| TSRBGN07D | 7D | 14.4 | 10.3 | 17.5 | 10 |



Further sizes available. Please e-mail esco@barloworld-scientific.com for more details

Silicone Rubber Discs

- Suitable for use as highly effective cap liners, or as a septum for injection ports, pierceable closures etc
- Operate over a wide temperature range: 50°C to 200°C
- Manufactured from FDA approved material

| TDSC019001619.0 X 1.6100TDSC02201622.0 X 1.6100TDSC025401625.4 X 1.6100TDSC027001627.0 X 1.6100TDSC036501636.5 X 1.6100TDSC047621647.6 X 1.6100TDSC05801650.8 X 1.6100TDSC05801656.0 X 1.6100TDSC056001656.0 X 1.6100TDSC019003219.0 X 3.2100TDSC02003222.0 X 3.2100TDSC022003222.0 X 3.2100 |
|---|
| TDSC025401625.4 X 1.6100TDSC027001627.0 X 1.6100TDSC036501636.5 X 1.6100TDSC047621647.6 X 1.6100TDSC048751648.8 X 1.6100TDSC05801650.8 X 1.6100TDSC056001656.0 X 1.6100TDSC019003219.0 X 3.2100TDSC02003222.0 X 3.2100TDSC022003222.0 X 3.2100 |
| TDSC027001627.0 X 1.6100TDSC036501636.5 X 1.6100TDSC047621647.6 X 1.6100TDSC048751648.8 X 1.6100TDSC05801650.8 X 1.6100TDSC056001656.0 X 1.6100TDSC019003219.0 X 3.2100TDSC022003222.0 X 3.2100 |
| TDSC0365016 36.5 X 1.6 100 TDSC0476216 47.6 X 1.6 100 TDSC0487516 48.8 X 1.6 100 TDSC058016 50.8 X 1.6 100 TDSC0560016 56.0 X 1.6 100 TDSC0190032 19.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC0476216 47.6 X 1.6 100 TDSC0487516 48.8 X 1.6 100 TDSC058016 50.8 X 1.6 100 TDSC0560016 56.0 X 1.6 100 TDSC0190032 19.0 X 3.2 100 TDSC020032 20.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC0487516 48.8 X 1.6 100 TDSC058016 50.8 X 1.6 100 TDSC0560016 56.0 X 1.6 100 TDSC0190032 19.0 X 3.2 100 TDSC020032 20.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC058016 50.8 X 1.6 100 TDSC0560016 56.0 X 1.6 100 TDSC0190032 19.0 X 3.2 100 TDSC020032 20.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC0560016 56.0 X 1.6 100 TDSC0190032 19.0 X 3.2 100 TDSC020032 20.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC0190032 19.0 X 3.2 100 TDSC020032 20.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC020032 20.0 X 3.2 100 TDSC0220032 22.0 X 3.2 100 |
| TDSC0220032 22.0 X 3.2 100 |
| |
| |
| TDSC0254032 25.4 X 3.2 100 |
| TDSC0270032 27.0 X 3.2 100 |
| TDSC0365032 36.5 X 3.2 100 |
| TDSC0444032 44.4 X 3.2 100 |
| TDSC047632 47.6 X 3.2 100 |
| TDSC042063 42.0 X 6.3 100 |



Custom sizes, 10mm-50mm diameters available. Minimum order quantity applies.

Please e-mail esco@barloworld-scientific.com for details





jenway - science equipment



Enterprise Model 370 pH/mV Meter

- pH or mV display
- Simultaneous temperature reading
- Push button calibration
- Battery life indicator
- 32 reading data storage

| Product Code | Description |
|-----------------|---|
| 370 271 | Model 370 supplied in FREE carry case with epoxy combination pH electrode, ATC probe, buffer sachets, batteries (fitted) and instructions. |

Specification

| рН | -2 to 16.00pH |
|-----------------|----------------------------|
| mV (Abs or Rel) | -1999 to +1999mV |
| Temperature | -10 to +105°C /14 to 221°F |
| Size (mm) | 175 x 75 x 35 |
| | |

pH Meter, Bench, Model 3520

<u>JENWAY</u>

<u>JENWAY</u>



• Ideal for quality control and GLP applications

- 1, 2 or 3 point calibration
- Simultaneous display of pH and temperature
- Multi language operation
- 500 location memory
- Infra-red data link (IrDA)
- Powerful data logging capabilities

| Product Code | Description |
|-----------------|--|
| 352 001 | Model 3520 supplied with glass combination pH electrode, electrode stand and holder, ATC probe, BNC shorting plug, buffer sachets, UK power supply and instructions. |

Specification

| рН | -2.000 to +19.999pH |
|-----------------|-----------------------------|
| mV (Abs or Res) | -1999.9 to +1999.9mV |
| Temperature | -10 to +105°C / 14 to 221°F |
| Size (mm) | 210 x 250 x 60 |
| | |

jenway - science equipment

<u>JENWAY</u>



Genova Life Science Analyser

- Dedicated software for RNA/DNA analysis
- Standard protein methods
- Ideal for monitoring cell growth at 600nm
- Full UV/Vis spectrophotometer functions
- Purity scan

| Product Code | Description |
|-----------------|---|
| 636 001 | Genova supplied with mains lead, 8 x 750µl UV plastic cuvettes, |
| | cell holder and instructions. For use on 230V/50Hz |

Specification

| Wavelength range |
|---------------------|
| Ranges |
| Concentration units |
| Factor |
| Size (mm) |

198–1000nm with 5nm bandpass (typical @ 270nm) 0 to 199.9%T, -0.300 to 1.999A, -300 to 9999 Conc ppm, mg/l, g/l, M, %, blank, mg/ml, μg/ml, ng/ml 0 to 999.9 / 1000 to 9999 365 x 272 x 160



For further information on Jenway products please go to www.jenway.com or email sales@jenway.com



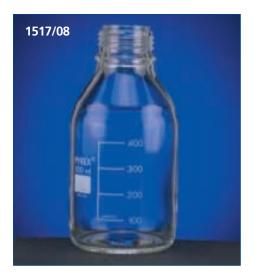
Need accessories for your spectrophometer? Please refer to page 22 of this catalogue



pyrex[®]- reusable glassware

1516/08D





Bottles, Media-Lab

- Complies with ISO4796
- Ideal for mixing and storing culture media
- Wide neck and sloping shoulders for smooth pouring
- Manufactured from borosilicate glass
- Bottle, cap and pouring ring withstand steam sterilisation or dry heat up to 140°C
- Available complete with blue polypropylene cap and pouring ring or bottle only
- Spare caps available in a variety of colours

| Product Code Bottle Complete with cap and pouring ring | Bottle Only | Capacity (ml) | Height (mm) | Diameter (mm) | Thread Size (mm) |
|--|----------------|------------------|----------------|------------------|------------------------|
| 1516/04D | 1517/04 | 100 | 100 | 56 | 45 |
| 1516/06D | 1517/06 | 250 | 138 | 70 | 45 |
| 1516/08D | 1517/08 | 500 | 176 | 86 | 45 |
| 1516/10D | 1517/10 | 1000 | 225 | 101 | 45 |
| 1516/12D | 1517/12 | 2000 | 260 | 136 | 45 |
| 1516/16D | 1517/16 | 5000 | 335 | 181 | 45 |

PYREX[®]

PYREX[®]



N.B. If sterilising by dry heat or steam, ensure that the cap is not fully tightened. Slacken off first. Failure to follow this procedure can result in pressure build-up and fracture of the glass.





Spare Screwcaps for Media-Lab Bottles PYREX®

- Polypropylene plug seal caps
- For use with 1516 and 1517 series bottles listed above
- Autoclavable up to 140°C
- Available in a choice of colour for easy identification of samples

| Product Code | Thread Size (mm) | Colour |
|-----------------|---------------------|------------|
| 4506/45D | 45 | Light blue |
| 4506/45E | 45 | Green |
| 4506/45F | 45 | Yellow |
| 4506/45G | 45 | Grey |

Spare Pouring Rings for Media-Lab Bottles

- Polypropylene pouring rings to ensure drip-free pouring
- For use with 1516 and 1517 series bottles listed above
- Autoclavable up to 140°C

| Product Code | Thread Size (mm) | Colour |
|-----------------|---------------------|--------|
| 4516/45D | 45 | Clear |

pyrex[®]- reusable glassware

PYREX®

PYREX®

Flasks, Erlenmeyer, Screw Cap

- Ideal for storage of culture specimens and media
- Phenolic screwcaps with PTFE faced liner
- Autoclavable up to 121°C
- Excellent chemical durability and contamination free storage
- Manufactured from Pyrex[®] borosilicate glass

| Product Code | Capacity (ml) | Height (mm) | Diameter (mm) | Thread Size (mm) |
|-----------------|------------------|----------------|------------------|------------------------|
| 1137/03D | 100 | 64 | 105 | 30 |
| 1137/06M | 250 | 85 | 130 | 42 |
| 1137/08D | 500 | 105 | 160 | 42 |
| 1137/10M | 1000 | 131 | 210 | 42 |

(i) N.I

N.B. If sterilising by dry heat or steam, ensure that the cap is not fully tightened. Slacken off first. Failure to follow this procedure can result in pressure build-up and fracture of the glass

Tubes, Culture, Screw Cap

Manufactured from Pyrex[®] borosilicate glass

- High resistance to attack by water
- Reduces leaching of contaminants which can cause pH changes
- Phenolic screwcaps with inert PTFE faced rubber liner
 - Withstands repeated dry heat or steam sterilisation cycles (2 hours at 121°C)

| Product Code | OD x Length (mm) | Wall Thickness (± 0.2mm) | Approx Capacity (ml) | Thread Size |
|-----------------|---------------------|-----------------------------|----------------------------|----------------|
| 1636/24MP | 14 x 100 | 1.5 | 9 | 13 |
| 1636/26MP | 16 x 100 | 1.8 | 12 | 15 |
| 1636/04MP | 16 x 125 | 1.8 | 15 | 15 |
| 1636/30MP | 16 x 160 | 1.8 | 19 | 15 |
| 1636/32MP | 18 x 100 | 1.8 | 16 | 18 |
| 1636/34MP | 18 x 180 | 1.8 | 29 | 18 |
| 1636/36MP | 20 x 100 | 1.8 | 21 | 20 |

Detergent, Concentrate

Lipsol®

- Expellent cleaning performance, ideal for use with lab glassware, plasticware, rubber, ceramics and stainless steel
- Economical price
- Non-corrosive,* non-irritant and totally biodegradable* surface-active cleaning agent
- Free of chlorine bleaches. Phosphate and enzyme free

| Product Code | Description | Pack Qty |
|-----------------|-------------------|------------------------|
| 40023 | Lipsol® detergent | 2 x 5 litre jerry cans |

*Independent test reports available on request



Not suitable for use on non-ferrous metals, especially aluminium, zinc or on polycarbonates

Glassware product codes relate to a single item and not case quantity







stuart[®]- science equipment



SC6 with SC6/1



SB2 with SB3/2



Colony Counter, SC6



- For fast and accurate counting of bacterial and mould colonies
- Pressure sensitive count system can be used with any probe or felt tip pen
- Built-in average count facility to facilitate counting of multiple plates
- Digital readout from 0 to 999
- Choice of light or dark background
- Supplied complete with two 50 to 90mm Petri dish adapters, one Wolffhuegel graticule and one segmentation disc
- Choice of magnifiers available to aid easier counting of smaller colonies

| Product Code | Description | Dish Size |
|-----------------|-----------------|-----------|
| SC6 | Colony counter | 50 to 90 |
| SC6/1 | 1.7 x magnifier | - |
| SC6/1/3 | 3 x magnifier | - |

Rotator, Fixed and Variable Speed, SB2 & SB3



stuar

- Ideal for aerating cultures, keeping biological samples in suspension and for general mixing applications
- Can be used in incubators up to 60°C and in cold rooms down to 4°C
- Fully adjustable mixing angle
- Choice of fixed speed or variable speed with digital timer
- Choice of six types of tube holders to hold a number of different sized tubes with end-overend or rolling action

| Product Code | Description | Speed Range (rpm) | Timer (mins) | Tube Diameter (mm) | No of Tubes |
|-----------------|-----------------------------|-------------------------|-----------------|--------------------------|----------------|
| SB2 | Rotator, fixed speed | Fixed 20 | - | - | - |
| SB3 | Rotator, variable speed | 2 to 40 | 1-999 | - | - |
| SB3/1 | Micro tube holder | - | - | 10 to 11.5 | 40 |
| SB3/2 | Test/blood tube holder | - | - | 9 to 20 | 20 |
| SB3/3 | 50ml centrifuge tube holder | - | - | 25 to 35 | 12 |



Holder must be ordered separately

Incubator, With Orbital Shaker, SI50



- Combined incubator and shaker
- Forced air circulation up to 60°C
- Digital set and display of temperature
- Over-temperature cut-out
- Shaker accepts most sizes of flasks up to 2 litre capacity
- Electronic speed control with soft start

| Product Code | Description | Temp.Range (°C) | Speed Range (rpm) | Platform Size (mm) |
|-----------------|---------------------------|--------------------|-------------------------|--------------------------|
| SI50 | Incubator, orbital shaker | +5 to 60 | 20 to 250 | 310 x 310 |
| RSI50 | Spare securing bars | - | - | - |

stuart[®]- science equipment

stuar

Shakers, Orbital, Laboratory Scale SSL1 sturr and Mini SSM1

- Smooth orbital shaking action
- Choice of laboratory scale or smaller mini version
- Can be used in incubators and environmental chambers (up to 40°C and 80% humidity
- Built-in digital timer
- Soft start with variable speed control to 300rpm
- Supplied with non-slip mat for multi-well plates etc
- Accessories available to increase capacity

| Product Code | Description | Platform Dimensions w x l (mm) | Speed Range (rpm) | Temperature Range (°C) |
|-----------------|--------------------------------------|--------------------------------------|-------------------------|------------------------------|
| SSL1 | Shaker, orbital, laboratory scale | 335 x 335 | 30 to 300 | +4 to +40 |
| SSM1 | Shaker, orbital, mini | 220 x 220 | 30 to 300 | +4 to +40 |

Stirrers, Magnetic, with Hotplate, CB162 & CB302

- Choice of ceramic plate size
- Microprocessor controlled for accurate heating
- Powerful stirring action
- Flashing 'Hot' warning light to warn when top plate is too hot to touch
- Independent safety circuit to protect against overheating

| Product Code | Description | Stirrer Speed (rpm) | Heated Area (mm) |
|-----------------|---------------------------------|------------------------|---------------------|
| CB162 | Stirrer hotplate, small ceramic | 100-1500 | 120 x 120 |
| CB302 | Stirrer hotplate, large ceramic | 100-1500 | 200 x 200 |

Pipette Controller, Bibbyjet Pro

- Powerful, lightweight electronic pipette controller
- LED shows when battery is running low
- Mode selector switch for gravity delivery or blow out (with motor power)
- Recharges in less than 4 hours. Battery is replaceable

| Product Code | Description | |
|-----------------|--|--|
| PC2000 | Bibbyjet Pro, complete with UK charger | |



SSL1





techne[®] - science equipment



Thermal Cycler, TC-312



- Compact, easy to use and low cost ideal for research and teaching laboratories
- Block uniformity of ±0.1°C at 50°C, ensuring optimal reproducibility
- Rapid heating rate of 3.6°C/sec
- Temperature range 40°C to 99°C
- Can be used stand alone or networked with other Techne cyclers allowing up to 32 cyclers to be connected to one PC
- Password protection against unwanted modifications
- Heated lid (100°C to 115°C) is sprung to fit both 0.2ml domed and 0.5ml flat top tubes and can be enabled or disabled

| Product Code | Description |
|-----------------|----------------------------------|
| FTC3105D | TC-312 for 20 x 0.5ml microtubes |
| FTC3102D | TC-312 for 25 x 0.2ml microtubes |

Accessories, Interchangeable Blocks

| Product Code | Description |
|-----------------|---|
| FTC31B05 | Block for 20 x 0.5ml microtubes Block for 25 x 0.25ml microtubes |
| FICSIDUZ | DIOCK TOT 25 X 0.25TH THICTOLUDES |

Thermal Cycler, TC-412



- High performance, high sample throughput cycler ideal for a larger number of parallel samples
- Fully interchangeable block system without the need for tools
- Great flexibility due to a large range of block formats
- Heated lid (100°C to 115°C) to accommodate a variety of consumables
- Excellent heating rate of 2.6°C/sec and block uniformity of ±0.3°C at 50°C
- Temperature range 4°C to 99°C
- Can be connected to a PC along with other Techne cyclers for low or high throughput applications using Gensoft software

| Product Code | Description |
|-----------------|---|
| FTC41S5D | TC-412 for 60 x 0.5ml microtubes |
| FTC41H2D | TC-412 for 96 x 0.2ml microtubes or 96 well plate |
| FTC41F2D | TC-412 for 96 x 0.2ml microtubes or 96 well fully skirted plate |
| FTC4384D | TC-412 for 384 well plate |
| FTC41FLD | TC-412 for in-situ |

Accessories, Interchangeable Blocks

| Product Code | Description |
|-----------------|--|
| FTC41B5D | Block for 60 x 0.5ml microtubes |
| FTC41BHD | Block for 96 x 0.2ml microtubes or 96 well plate |
| FTC41BFD | Block for 96 x 0.2ml microtubes or 96 well fully skirted plate |
| FTC4B384 | Block for 384 well plate |
| FTC41BID | Flat plate block for in-situ |



techne[®] - science equipment

Thermal Cycler, Gradient, TC-512



- Ideal for a very large number of samples
- Each block consists of 8 Peltier units, controlled by 4 independent control sensors distributed evenly across the block to ensure the most accurately controlled linear gradient available
- Gradient range 20°C to 70°C, maximum 30°C
- Heating rate of 3.0°C/sec and block uniformity of ±0.3°C at 50°C with or without a gradient
- User-friendly programming interface provided by a 115 x 90mm, touch-sensitive screen
- Real-time graphical display shows the sample temperature profile including the upper and lower limits of the gradient
- Memory cards provide flexible and secure way of storing programmes
- Gradient calculator function displays the temperature of each column of tubes, ensures accurate replication of experimental conditions
- User friendly interchangeable block systems
- PC control and networking option
- Defined pressure programmable heated lid
- Easy to use programming software with free upgrades downloadable from the Techne website: www.techne.com

| Product Code | Description |
|-----------------|---|
| FTC51S5D | TC-512 for 60 x 0.5ml microtubes |
| FTC51H2D | TC-512 for 96 x 0.2ml microtubes or 96 well plate |
| FTC51F2D | TC-512 for 96 x 0.2ml microtubes or 96 well fully skirted plate |
| FTC5384D | TC-512 for 384 well plate |
| FTC51FLD | TC-512 for flat plate in-situ (non-gradient) |
| | |

Accessories, Interchangeable Blocks

| Product Code | Description |
|-----------------|--|
| FTC515BD | Block for 60 x 0.5ml tubes |
| FTC51BHD | Block for 96 x 0.2ml microtubes or 96 well plate |
| FTC51BFD | Block for 96 x 0.2ml microtubes or 96 well fully skirted plate |
| FTC5B384 | Block for 384 well plate |
| FTC51BID | Flat plate for in-situ (non-gradient) |



techne[®] - science equipment



Dri-Block[®] Heaters



- Ideal for incubation purposes in microbiology and clinical laboratories
- Uniform and stable temperature
- Analogue or digital control
- Choice of 2 or 3 block format
- Wide range of interchangeable aluminium blocks

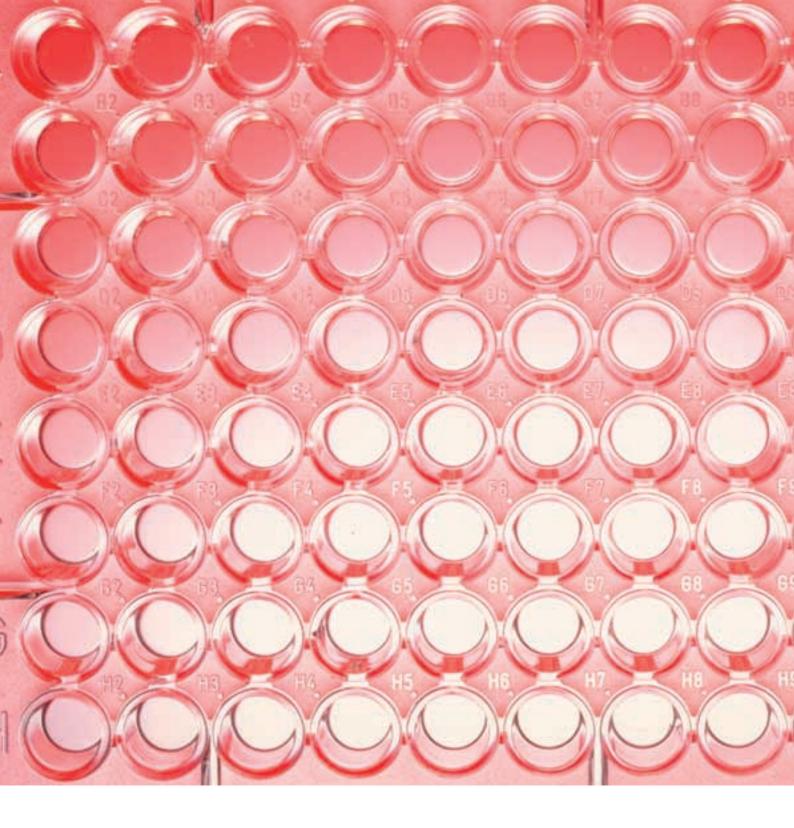
| Product | Description | Controls | Temperature Range |
|---------|---|----------|-------------------|
| Code | | | |
| FDB02AD | Dri-Block heater for 2 aluminium blocks | Analogue | 25 -100 |
| FDB02DD | Dri-Block heater for 2 aluminium blocks | Digital | 25 - 100 |
| FDB03AD | Dri-Block heater for 3 aluminium blocks | Analogue | 25 - 200 |
| FDB03DD | Dri-Block heater for 3 aluminium blocks | Digital | 25 - 200 |

Accessories, Interchangeable Blocks

Manufactured from anodised aluminium and all with separate hole to accommodate a thermometer if desired. All* blocks have dimensions 75 x 95 x 50mm and can be used in any combination

* Excludes microtitre blocks

| Product Code | Description |
|-----------------|--|
| F3501 | Plain block |
| F3502 | Block for 30 x 6mm diameter tubes |
| F3503 | Block for 20 x 10mm diameter tubes |
| F3504 | Block for 20 x 12mm diameter tubes |
| F3505 | Block for 20 x 13mm diameter tubes |
| F3506 | Block for 12 x 15mm diameter tubes |
| F3507 | Block for 12 x 16mm diameter tubes |
| F3508 | Block for 8 x 19mm diameter tubes |
| F3509 | Block for 6 x 25mm diameter tubes |
| F3510 | Block for 10mm cuvettes |
| F4462 | Block for 6 x 24mm diameter tubes |
| F4463 | Block for 6 x 26mm diameter tubes |
| F4464 | Block for 20 x 1.5ml microcentrifuge tubes |
| F4465 | Block for 30 x 0.5ml microcentrifuge tubes |
| F4470 | Block for 20 x 2.0ml microcentrifuge tubes |
| F4467 | Hi-Temp 96 block |
| F4468 | Falcon round bottom plate block |
| F4469 | Falcon flat bottom plate block |
| F4471 | Block for 72 x 0.2ml micro tubes |



Technical Information

1. Abbreviations

| ABS AL AS CA Dia EO ID IRR G M NS OD OH PE PES PETG PMMA | Acrylonitrile Butadiene Styrene Aluminium Aseptic Manufacture Cellulose Acetate Diameter Ethylene Oxide Internal Diameter Irradiated for Sterility Glass Metal, Tin Plate Non Sterile Outer Diameter Overall Height Polyethylene Polyethersulfone Polyethylene Tetraphthalate Polymethyl Methacrylate |
|--|---|
| | , , , |
| | , , , |
| PP | Polypropylene |
| PS | Polystyrene |
| W | Wire, Epoxy Coated |

2. Bags, Autoclave

(cat page 2)

Recommendations for use:

- Vessels containing liquid should not be plugged or capped
- Do not put sharp objects such as broken glassware into an autoclave bag
- Add some water to bags of solid waste. The water will vapourise into steam and will drive out residual air once sterilisation temperature has been reached inside the bag
- Do not tightly seal the bag as this will prevent air escaping during the sterilisation process
- Do not overload autoclave. Leave sufficient room for thorough steam circulation
- For the decontamination and inactivation of particularly resistant biological waste, use High Temperature bags and autoclave at 135°C



3. Bags, Metal Closure

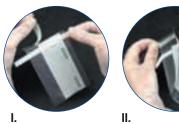
(cat page 3)

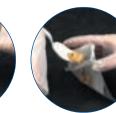
Method of Use

- I. Tear off top of bag along perforation
- II. Use pull tabs to open bag
- III. Place sample in bag
- IV. Hold bag by wire ends and whirl three times to close (whirling the bag will form the tightest seal) or fold the tab over tightly three times to close (folding the tab should be used for larger bags)
- V. Bend wire ends onto bag to ensure bag remains closed
- VI. Sample contained in bag

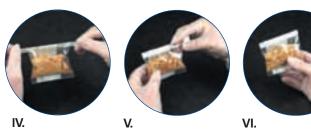
To re-open the bag:

- Bend the wire ends away from the bag
- Unroll the tab
- Use pull tabs to open





III.



4. Cell Biology, Treated Products

(cat pages 72, 75, 76, 78)



The Iwaki TC treated products (flasks, dishes, multiwells) undergo a special tissue culture treatment to enable them to support cell growth on their surfaces. This is primarily a treatment that makes the surface of the vessel hydrophobic and thus enhances cell attachment.

5. Cell Biology, Working Volumes

The following volumes are a general guideline only.

Customers should decide the media volume required dependant on the cell line being used

| | Recommended Working Media Volume (ml) |
|-------------------------|---|
| Culture Dishes | |
| 35 mm | 2.0 - 3.0 |
| 60 mm | 4.0 - 6.0 |
| 100 mm | 10.0 - 15.0 |
| 150 mm | 40.0 - 50.0 |
| | |
| Multi Well Plates | |
| 6 wells | 2.0 - 3.0 |
| 12 wells | 1.5 - 2.2 |
| 24 wells | 0.5 - 1.0 |
| 48 wells | 0.5 - 0.8 |
| 96 wells | 0.1 - 0.2 |
| Culture Flasks | |
| 25 cm ² | 5.0 - 7.5 |
| 25 cm ² slim | 5.0 - 7.5 |
| 75 cm ² | 15 - 30 |
| 150 cm ² | 40 - 50 |
| 225 cm ² | 45 - 75 |
| | |

6. Cell Biology, Substrate Coated Products

(cat pages 80 & 81)

A problem that can occur when attempting to culture cells in-vivo is encouraging them to grow and proliferate on a plastic or glass base rather than on macromolecular connective tissue, which would bind them together in-vivo. This connective tissue, known as the extra cellular matrix, generally consists of proteins, polysaccharides and proteoglycans. To help combat this problem Iwaki have developed a range of tissue culture products coated with components of the extra cellular matrix. When placed in contact with these proteins, cells that are usually difficult to nurture in artificial environments:

- Show improved cell attachment and growth
- Exhibit lower requirements for serum
- Produce a monolayer of cells needed to show a cytopathic effect

This range also has significant other benefits over non-coated TC products or in-house coated product when the need to culture 'difficult' cells arises, namely:

- Saves time
- Ensures reproducibility
- Consistency in results

a) Collagen Type I

Collagen type I is found in most tissues and organs, but can be found mainly in dermis, bone and tendons. As an integral part of the overall framework that holds cells and tissues together it has been recognised as a useful matrix for enhancing cell culture. The in vitro use of collagen can improve cell attachment and increase proliferation rates for a variety of normal and transformed mammalian cell types Collagen source – pig tendon

Storage should be at room temperature (not higher than 25°C) Avoid storage in areas of high humidity

Rapid temperature changes and exposure to UV irradiation may reduce the shelf life of the product.

- Suitable cell types include:
- Endothelial Cells
 - Primary human umbilical vein endothelial cells (HUVEC)
 - Foetal bovine heart endothelial cells (FBHE)
 - Primary porcine aortic endothelial cells
- Hepatocytes
 - Primary rat hepatocytes
 - Primary human hepatocytes
 - HepG2 cells
- Muscle Cells
 - Chick embryo myocytes and myoblasts
 - Rat myocytes and myoblasts
 - Skeletal muscle cells
 - Rat smooth muscle cells
 - Quail myoblasts
 - Human smooth muscle cells
 - Rat primary cardiomyocytes
 - Transfected MM41 skeletal myoblasts
- Rat PC12 Cells
- Other Cell Types
 - Transfected CHO cells
 - MDA-MB 435 tumour cells

b) Fibronectin

Fibronectin exists in the plasma (as a dimer) and in the extracellular matrix and on cell surfaces (in multimeric form). Its main function is cell adhesion to the extracellular matrix that occurs through an interaction of its cell binding domain with fibronectin-specific cell surface receptors. Other domains of fibronectin also interact with collagen, heparin and cell surface glycosaminoglycans. It can promote the cell attachment, proliferation, differentiation and spreading of many cell types, especially fibroblasts.

Fibronectin source – foetal plasma

Storage should be at room temperature (not higher than 25°C)

Avoid storage in areas of high humidity

Rapid temperature changes and exposure to UV irradiation may reduce the shelf life of the product

- Suitable cell types include:
- Fibroblasts
 - Hamster kidney cells, BHK-21
- Endothelial Cells
 - Capillary endothelial cells
 - Human umbilical vein endothelial cells
 - Microvascular endothelial cells
- Nerve Cells
 - Neuroblastoma cells
- Other Cell Types
 - Monocytes
 - 3T3 Preadipose cells
 - Human myeloma cell lines



c) Gelatin

Gelatin is derived through the hydrolysis of collagen to produce a heterogeneous mixture of water-soluble proteins. It can be used to enhance the attachment of a wide variety of both normal and transfected cell types

Gelatin source – pig skin

Storage should be at room temperature (not higher than 25°C).

Avoid storage in areas of high humidity

Rapid temperature changes and exposure to UV irradiation may reduce the shelf life of the product

Suitable cell types include:

Vascular Endothelial Cells

- Primary human umbilical vein endothelial cells (HUVEC)
- Embryonic Stem Cells
- Muscle Cells
- F9 Teratocarcinoma Cells

d) Poly-L-Lysine and Poly-Ethylene-Imine

These are chemically synthetic molecules used to enhance cell attachment by altering the charge on the surface of the tissue culture treated vessel from negative to positive. Poly-L-Lysine has been found to be especially effective when using serum free or serum reduced cultures where it also enhances the adsorption of serum or extracellular matrix proteins to the culture substrate. Both are suitable for the primary culture of nerve cells. Poly-Ethylene-Imine is especially suited for the primary culture of cells associated with the central nervous system.

Storage should be at room temperature (not higher than $25^{\circ}C$)

Avoid storage in areas of high humidity

Rapid temperature changes and exposure to UV irradiation may reduce the shelf life of the product Suitable cell types include:

- Primary Neurons
 - Cerebellar granule
 - Cerebral cortex
 - Sympathetic neurons
 - Sciatic nerve
 - Cortical neurons
 - Spinal cord neurons
 - Septal neurons
 - Dorsal root ganglia
- Neuronal Cell Lines
- Glial Cells
- Transfected Cell Lines



| Application | Collagen Type I | Fibronectin | Gelatin | PLL / PEI |
|--|--------------------|--------------|--------------|--------------|
| Promotion of cell attachment and spreading | \checkmark | \checkmark | \checkmark | V |
| Cell adhesion assays | \checkmark | \checkmark | | |
| Serum free/reduced serum culture | V | \checkmark | | |
| Rapid expansion of cell populations | V | \checkmark | | |
| Studies of effects of of coating type on behaviour | V | V | | |
| Improving survival of of primary cells in culture | V | V | | |
| Culture of normal and transfected F9 teratocarcinoma cells for gene expression | 1 | | V | |
| Culture and promote proliferation of Human Umbilical Vein Endotheli Cells (HUVEC) | V | V | V | |
| Cell differentiation and | | | | \checkmark |
| neurite outgrowth | | | | |
| Attachment of fastidiou transfected cell lines | S | | | \checkmark |
| Support survival of prim primary neurons in cultu | | | | \checkmark |

7. CE Marking and the In Vitro Diagnostic Device Directive 98/79/EU

Many Sterilin products now carry a CE symbol in accordance with the European Directive 98/79/EU.

The Directive was introduced in 2003 to regulate the safety and performance of In Vitro Diagnostic Devices throughout the European Union. Manufacturers, such as Barloworld Scientific, are obliged by the Directive to adopt careful design, production and quality control of products that are classed as In Vitro Medical Devices. The latter includes Petri dishes, Specimen Containers and Multiwell Plates.

Sterilin branded products, which are covered by the Directive and CE marked, are clearly identified in this catalogue. Just look for the CE symbol against the catalogue entry.

It should be noted that the Directive does not apply to general laboratory products such as transfer pipettes. Hence these items are not CE marked.

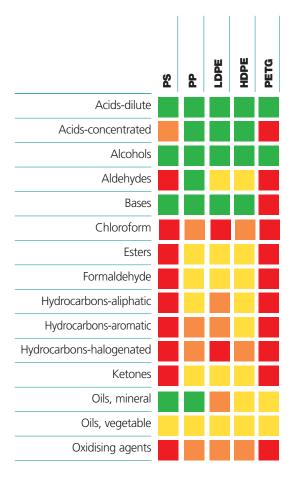
For some products there is no clear distinction between In Vitro Diagnostic Devices and General Laboratory Products. In these cases Barloworld Scientific has chosen to adopt a responsible approach: it will not CE mark until it receives clarification from the European Commission.

For latest information please consult

www.barloworld-scientific.com and click onto Technical Centre where this information can be found under Technical Data.

8. Chemical Resistance and Physical Properties of Polymers

Excellent resistance, can withstand use over a long period of time without change Good resistance, minor attack may occur over long periods of storage Limited resistance, moderate attack, product can be used for brief mixing and measuring Poor resistance, product becomes unstable on contact with chemical TL Translucent



Key to abbreviations

(PS) Polystyrene

(PP) Polypropylene

(LDPE) Low density polyethylene

(HDPE) High density polyethylene

(PETG) Polyethylene Tetraphthalate

This chemical resistance chart and table of physical properties is intended for general guidance only. We recommend that users satisfy themselves as to the compatibility between containers and proposed contents before use.

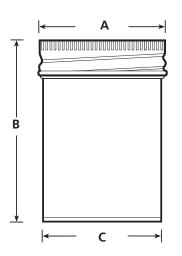
| | | S | đ | LDPE | HDPE | PETG |
|---|------------------------------------|------|-------|-------|-------|------|
| | Max Temp °C | 70 | 135 | 80 | 120 | 60 |
| | Min Temp °C | -40 | 0 | -50 | -100 | -80 |
| | Autoclavable | NO | YES | NO | NO | NO |
|)10 | Gamma Irradiation Sterilisation | YES | NO | YES | YES | YES |
| g) × 10 | Transparency | С | TL | TL | TL | С |
| E H | Gas Permeability N_2 | 3 | 4.4 | 20 | 3 | 0.8 |
| ² sec (| Gas Permeability CO ₂ | 75 | 92 | 280 | 45 | 4.5 |
| mm cm³/cm² sec (cm Hg) x 10 ¹⁰ | Gas Permeability 0 ₂ | 15 | 28 | 60 | 10 | 1.1 |
| mm c | Water Absorption % | 0.05 | <0.02 | <0.01 | <0.01 | <0.1 |

9. Containers, Dimensions

(cat page 9)

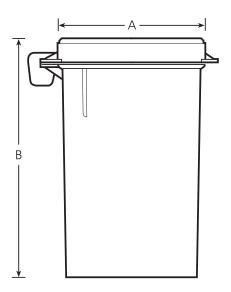
Dimensions given throughout the catalogue are nominal unless otherwise stated.

Barloworld Scientific Ltd reserves the right to alter specifications without the prior notice as part of the company's policy of ongoing product improvement.



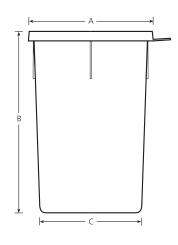
| Product | A (mm) | B (mm) | C (mm) |
|----------------------------------|-----------|-----------|-----------|
| 7ml Bijou, PS§ | 22.5 | 50.2 | 18.0 |
| 7ml Bijou, Glass | 20.9 | 45.5 | 15.9 |
| 30ml Universal, PS | 31.0 | 94.0 | 24.0 |
| 30ml Universal, PP | 29.5 | 90.0 | 24.0 |
| 30ml Universal, Glass | 26.6 | 84.8 | 21.4 |
| 40ml Container, PP | 34.0 | 70.0 | 30.0 |
| 60ml Container, Plastic Cap, PS | 35.0 | 61.0 | 39.2 |
| 60ml Container, Metal Cap, PS | 44.5 | 61.0 | 39.2 |
| 60ml Container, Plastic Cap, PP | 39.0 | 70.0 | 34.0 |
| 100ml Container, Plastic Cap, PS | 51.0 | 78.0 | 44.0 |
| 100ml Container, Metal Cap, PS | 49.5 | 77.0 | 44.0 |
| 125ml Container, Plastic Cap, PP | 61.0 | 74.0 | 51.0 |
| 150ml Container, Metal Cap, PS | 55.0 | 108.0 | 48.0 |
| 180ml Container, Plastic Cap, PP | 61.0 | 102.0 | 51.0 |
| 250ml Container, Metal Cap, PS | 65.5 | 119.5 | 58.0 |
| 250ml Container, Metal Cap, PP | 65.0 | 118.0 | 58.0 |

Container, Polypropylene, Hinged Lid



| Product Code | A (mm) | B (mm) | Nominal Vol (ml) |
|-------------------|--------|--------|------------------|
| 52FLS / 52FLPLS | 29 | 85 | 48 |
| 60FLS / 60FLPLS | 31 | 78 | 53 |
| 100FLS / 100FLPLS | 43 | 80 | 101 |
| 300FLS / 300FLPLS | 75 | 88 | 296 |

Container, Polypropylene, Snap Cap



| Product Code | A (mm) | B (mm) | C (mm) |
|--------------|--------|--------|--------|
| 202PPI | 65 | 88 | 53 |
| 402PPI | 85 | 100 | 70 |
| 1002PPI | 105 | 130 | 88 |
| | | | |

10. Containers, Leak Test Standard

In many applications, particularly the healthcare sector, Sterilin containers will be used to contain both valuable and hazardous samples. Many of these samples will also be subjected to the rigours of hospital air transport systems. It is imperative that these products do not leak. As such, for the benefit and safety of both patients and clinicians, production samples of Sterilin containers are routinely leak tested in accordance with EN14254 Annexe D and BS5213

11. Containers, Double Bagged

(cat page 15)

Method of Use

Sterilin branded double bagged containers are available for use in hospital theatres and other sterile environments. The procedure for use is detailed below:

1. Each container is supplied double wrapped and irradiated. An irradiation dot is affixed to each inner bag confirming complete sterility



2. The outer bag can be opened in the non-sterile environment by carefully tearing along the line as directed. The inner bag can easily be pulled from the outer bag by staff within the sterile operating area ensuring a 'sterile' transfer from one area to the next



3. The container can then be removed from the second bag within the sterile operating environment

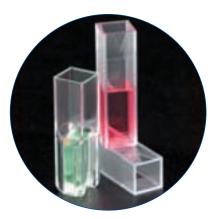


12. Cuvettes

(cat page 212)

Sterilin cuvettes are manufactured from both polystyrene (PS) and polymethyl methacrylate (PMMA). The table below indicates the chemical resistance of both polymers for 30 minute exposure.

| | PS | PMMA |
|------------------------|--------------|--------------|
| Ammonia | \checkmark | \checkmark |
| Hexane | Х | \checkmark |
| Hydrochloric acid, 36% | \checkmark | \checkmark |
| Hydrofluoric acid, 10% | \checkmark | \checkmark |
| Isopropanol | \checkmark | \checkmark |
| Sodium hydroxide | \checkmark | \checkmark |



Please note:

Cuvettes should not be used for long-term storage of samples. When using hydrochloric acid, as the instrument can come under attack from the acid fumes, it is recommended that sealing film is used on the cuvette.

What does "sorted by cavity number" mean?

A plastic injection mould with 8 separate cavities can produce 8 cuvettes at a time. To ensure best possible reproducibility, it is preferable to use product from the same cavity number. Cuvettes originating from each individual cavity are automatically packaged into the same carton. Therefore for best results, use cuvettes from one carton for each series of analyses

13. Microtitre Plates

(cat pages 30 & 73)

When selecting the type of microtitre plate required for a particular application, please use the table below for guidance:

| Application | Type of Plate |
|-------------------------------|---|
| DNA Libraries | Polystyrene, sterile with lid |
| High throughput screening of | All types |
| new and novel compounds | |
| EIA | Polystyrene |
| Luminescence | Polystyrene, white |
| Scintillation* | Polystyrene, white |
| Fluorescence | Polystyrene, black |
| Tissue culture growth studies | Polystyrene, TC treated, sterile with lid |

* With scintillation applications it is recommended to use polystyrene friendly scintillation cocktails

Choice of well shape

'U' Well

- Improves washing in ELISAs
- Enhances sensitivity in fluorescent applications
- Facilitates observation of agglutination reactions

Flat Well

- Provides optimal optical characteristics for polystyrene plates
- Suitable for reagent injection reactions

V' Well

Ideal profile for centrifugation and sedimentation

14. Petri Dishes

(cat page 31)

Sterilin 90mm, 140mm and 100mm square Petri dishes are manufactured in accordance with the British Standard 611 part 2. With stringent dimensional controls, we can ensure product quality and consistency making them ideal for use with most automatic plate pourers

Basic criteria with associated benefits are as follows:

| Specification | Benefit |
|--|---|
| Free from discolouration and weld marks | Good optical quality |
| Consistent dimensions without rough edges | Will fit plate pourers, safe to use |
| Minimum vent height | Adequate gas flow - consistent results |
| Rigidity to resist excessive deformation when handled | No distortion in use |
| Must not distort at 60°C | Pour with hot agar |
| Must resist fracture up to 19.61N | Reduced risk of breakage |
| Stability - incline stack to 12 degrees | Safe and easy to use |
| Free from loose particles greater than 100µm in diameter | No false positives when using automatic colony counters |
| Manufacture must be by aseptic means or the or the product must be terminally sterilised | Assured level of sterility |
| All packaging must be clearly marked with the manufacturers mark, BS611 and 'in vitro use only | Visible guarantee of a quality product |





15. Pipette Tips, Compatibility Chart

(cat page 45)

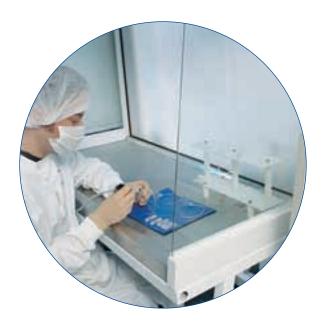
| Product Code | Description | Colour | Capacity (ul) | Eppendorf | Gilson | Finnpipette | Biohit | Elkay (Exelpette) | Jencons (Sealpette) | Nichiryo Soc | orex | Oxford | MLA |
|-----------------|---------------------------|--------|------------------|--------------|--------------|--------------|--------------|----------------------|------------------------|--------------|--------------|--------------|--------------|
| Standard | | | () | | | | | (| (2000) | | | | |
| BCT10 | Pipette Tip, micro | Clear | 0.5 – 10 | | | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | |
| BCT20 | Pipette Tip, micro | Clear | 0.5 – 10 | 1 | V | | V | V | V | V - | \checkmark | | |
| BCT25 | Pipette Tip | Yellow | 2 – 200 | | | | | | | | | | |
| BCT30 | Pipette Tip | Yellow | 2 – 200 | | | \checkmark | \checkmark | \checkmark | \checkmark | √ · | | | |
| BCT40 | Pipette Tip | Clear | 5 – 200 | | | | | | | | | | |
| BCT50 | Pipette Tip | Clear | 5 – 200 | | | | | | | | | | |
| BCT60 | Pipette Tip | Clear | 5 – 300 | | | | \checkmark | | | | | | |
| BCT70 | Pipette Tip | Blue | 100 - 1000 | | | | | \checkmark | | -√ - | \checkmark | | |
| BCT70S | Pipette Tip | Blue | 100 - 1000 | | | | | \checkmark | | √ · | \checkmark | | |
| BCT80 | Pipette Tip | Blue | 50 – 1000 | | | | | | | | | | |
| BCT90 | Pipette Tip | Clear | 50 – 1000 | | | | | | | | | | \checkmark |
| BCT100 | Pipette Tip, macro | Blue | 1000 – 5000 | | | | | | | | | \checkmark | \checkmark |
| BCT110 | Pipette Tip, macro | Clear | 1000 - 5000 | \checkmark | | \checkmark | \checkmark | | \checkmark | - | \checkmark | | |
| Bulk | | | | | | | | | | | | | |
| BCB25 | Pipette Tip | Yellow | 2 – 200 | \checkmark | | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | |
| BCB30 | Pipette Tip | Yellow | 5 - 200 | \checkmark | | \checkmark | \checkmark | \checkmark | \checkmark | | \checkmark | | |
| BCB70 | Pipette Tip | Blue | 2 – 200 | \checkmark | | \checkmark | \checkmark | \checkmark | \checkmark | | \checkmark | | |
| Racked | | | | | | | | | | | | | |
| BCTR10 | Racked Pipette Tip, micro | Clear | 0.5 - 10 | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | |
| BCTR20 | Racked Pipette Tip, micro | Clear | 0.5 – 10 | | | | \checkmark | \checkmark | \checkmark | | \checkmark | | |
| BCTR25 | Racked Pipette Tip | Yellow | 5 – 200 | \checkmark | | \checkmark | | | \checkmark | | | | |
| BCTR30 | Racked Pipette Tip | Yellow | 5 – 200 | \checkmark | | \checkmark | | \checkmark | \checkmark | √ · | \checkmark | | |
| BCTR60 | Racked Pipette Tip | Clear | 5 – 300 | | | \checkmark | | | | | | | |
| BCTR70 | Racked Pipette Tip | Blue | 50 - 1000 | | | | \checkmark | \checkmark | \checkmark | √ - | \checkmark | | |

NB: Barloworld Scientific pipette tips are recommended for use with, but not limited to, the pipettors listed in this compatibility chart

16. Sterility, Aseptic Manufacture

The term 'aseptic' refers to methods and procedures designed to prevent the access of living or dead bacteria, fungi, viruses and other biological contamination, so that products or work areas are maintained in a biologically clean condition.

Petri dishes, containers and multiwell plates are examples of Sterilin products that are aseptically manufactured. During production, virgin polystyrene is subjected to temperatures in excess of 200°C and then injected into the mould at high pressure. These exacting conditions ensure a biologically clean product. Subsequent assembly and packaging is carried out by trained operators under cleanroom conditions (class 7, maintained as per BS EN ISO14644) to exclude any microbiological contamination. Stringent microbiological sampling of both the cleanroom environment and finished product ensures extremely clean product with a very high Sterility Assurance Level (SAL)



17. Sterility, Irradiation

Irradiation is a method of sterilisation which involves subjecting the finished product and its packaging to ionising radiation. The radiation breaks down DNA and so destroys living organisms.

Barloworld Scientific uses gamma irradiation for the sterilisation of products which are complex to manufacture under aseptic conditions. These include Sterilin pipettes and microtitration plates. Products that have been subjected to sterilisation via irradiation are usually denoted by a red indicator on the packaging.

18. Sterility, Sterility Assurance Level (SAL)

Sterility can be defined in terms of the "probability" of a microorganism being present on the product.

For a medical device to be labelled "Sterile", the probability that a viable organism is present on the device must be less than or equal to 1 x 10^{-6} (1 colony per 1,000,000 product). This equates to a Sterility Assurance Level of 6.

For aseptically manufactured product the probability that a viable organism is present on the product is less than or equal to 10^{-3} (1 colony per 1,000 product). This equates to a Sterility Assurance Level of 3.

19. Swabs, Applicator Type

(cat page 49)



Depending on the area of the body where the sample is taken, one applicator may be more relevant than others.

- Plastic shaft (polystyrene), inert non-toxic material. Most common choice
- Twisted wire shaft due to its flexibility is designed specifically for nasopharyngeal sampling
- Aluminium shaft is generally used for ear, nose, eye and male urethral sampling. It is also excellent for paediatric use

20. Swabs, Tip Material

- Viscose (Rayon) a derivative of cellulose. As it is non-toxic to organisms, it is the most common type for microbiology
- Polyester (Dacron) –a synthetic fibre. Essential for use with PCR or similar DNA tests where the DNA of viscose could interfere with the results
 - **Barloworld** Scientific

21. Swabs, Transport Medium

- As there is often a delay between sampling and the subsequent analysis, medium is added to preserve (not inhibit or enhance) the micro-organism that may be present on the swab
- Due to the broad spectrum use of swabs and differing environmental requirements it is important that the transport medium is suitable for all microorganisms
- Amies is the most common medium and is ideal for generalpurpose use
- The transport media can be in gel or liquid form

a) Gel or Liquid

- Gel is generally the preferred option because it keeps air out of the medium and is less toxic to bacteria
- The main use of a liquid medium is for rapid tests hear the use of gel may not be appropriate, i.e. microscopic slides

b) Charcoal or Without ?

• The property of charcoal is to absorb pollutants and other substances that could be toxic to bacteria. Advised for use with difficult bacteria, particularly Neisseria gonorrhoea

22. Swabs, Packaging

a) Venturi Design

- Barloworld Scientific's Transport Swab has been carefully designed and engineered to provide superior swab performance
- A carefully engineered neck constriction and moulded fins creates a deliberate Venturi effect when the swab is introduced
- The Venturi action works to immediately surround and seal in the swab tip, eliminating any bubbles, cracks and breaks that would normally occur in the agar, protecting bacteria from the harmful effects of atmospheric oxygen



b) Unique Swab Packaging System

- Barloworld Scientific's unique packaging for the Sterilin range of transport swabs combines an outer foil pack and an inner plastic pouch, both with a vacuum and nitrogen gassed assembly process
- The outer foil bag serves to reduce evaporation and dehydration of the media whilst also protecting the product from harmful effects of sunlight
- The inner plastic pouch has notable benefits over traditional porous paper-plastic film packaging;
 - Totally waterproof, protecting the product from accidental contamination
 - Prevents evaporation and dehydration, keeping the transport medium fresh until the moment the product is opened for maximum bacterial recovery
 - Airtight to prevent oxygen penetration and subsequent media oxidation
 - Simpler to recycle than traditional paper and plastic packaging and so more likely to be disposed of in the correct way

23. Swabs, M40

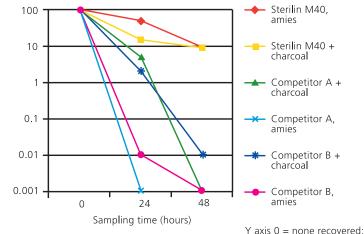
(cat page 51)

The culture swab is one of the most widely used devices for the transport and collection of patient specimens. The key to accurate diagnosis lies with the collection and maintenance of the initial patient sample where the organisms collected need to be kept alive until processed in the laboratory. To help improve overall patient care it was recognised that there should be a minimum acceptable performance for all swabs – as such, the M40 standard was formulated. The basic criteria of the standard are as follows:

- Must cover all extremes of the microbiology spectrum from aerobes to anaerobes and fastidious bacteria – all organisms under all conditions
- Compliant at room temperature (21°C) and + 4°C
- Length of time for bacterial survival 48 hours
- Performance must be the same throughout the shelf life

Sterilin M40 swabs comply with the new NCCLS M40-A and German DIN 58942-A performance standards

For further information on independent studies please e-mail Sterilin@barloworld-scientific.com



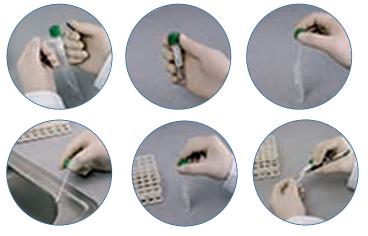
< 2.2 cfu/ml in washings

24. Swabs, Swab Rinse Kits

(cat page 53)

a) Method of Use

- Peel open the swab rinse kit pouch and remove the sampling swab
- Swab the test site. If the surface is dry pre-moisten the swab in the rinse solution provided. If a template is being used swab the designated area
- After sampling, break the swab applicator into the tube of rinse solution (if using the alginate swab the tip will dissolve)
- Transport back to the laboratory as soon as possible
- Plate the required dilution into the appropriate media, preferably within 4 hours of swabbing. Where this is not possible refrigerate at 4°C and analyse within 24 hours of swabbing
- To calculate the number of colony forming units per cm² (CFU/cm²) when using the 10 x 10cm template use the following; (number of colonies x volume of rinse solution x serial dilution)/100



b) Swab Rinse Kit (SRK) Solution

Used in environmental monitoring situations, the SRK solution constituents are:

Ringers balanced salt solution Tween 80 Lecithin Sodium Thiosulphate Sodium Thioglycollate Sodium Disulphate Sodium Pyruvate Sodium Hexametaphosphate

25. Transport and Mailing Systems

(cat page 65)

It is often necessary to transport infectious samples by post. Consequently, recent UN regulations have been issued to govern the transport of such substances. Two of the most widely used sample/specimen collection devices are the 30ml Universal container and the blood collection tube. To help with the transport of these devices, Barloworld Scientific has developed two UN compliant Transport and Mailing systems – one for the 30ml Universal container and one for a 12ml blood tube.

Infectious substances can be divided into two categories:

Category A (Infectious Substance)

'An infectious substance which is transported in a form that, when exposure occurs, is capable of causing permanent disability, lifethreatening or fatal disease to humans or animals'

Category A infectious substances MUST be transported in UN approved packaging (Sterilin product codes UNIS4/MCE1 or UNIS4/MCE4)

There are four layers of packaging required for Category A infectious liquid and solid samples.

1. A watertight primary receptacle – holds the patient sample, solid or liquid

2. Watertight secondary packaging – contains the primary receptacle (inner container)

 Absorbent material in sufficient quantity to absorb the entire contents placed between the primary and secondary receptacle
 Rigid outer packaging. The smallest external dimension shall not be

less than 100mm



The outer protective covering seen by the carrier should clearly exhibit the Infectious Substances triangle, a keep upright label and the relevant UN number and proper shipping name – Infectious Substances Affecting Humans (UN2814) or Infectious Substances Affecting Animals (UN2900)

If the health professional is not sure but suspects the sample is Category A, then he/she should send the sample in UN approved packaging and label it as a suspected infectious substance.



Category B (Diagnostic/Clinical Specimens)

'An infectious substance which does not meet the criteria for inclusion in Category A'.

Infectious substances in Category B should be assigned the UN number UN3373 and the proper shipping name of "Diagnostic Specimens" or "Clinical Specimens"

This requires a three layer packaging system:

- 1. The primary receptacle holds the patient sample
- 2. Secondary packaging to contain the primary receptacle
- 3. Outer packaging with suitable cushioning material

For transport, the UN number (UN3733) should be clearly visible in a diagnostic specimen diamond label on the outer packaging.

If Category B samples are to be transported by AIR, rigid outer packaging must be used (Sterilin product codes UNIS4/MCE1 or UNIS4/MCE4)

For more information and examples of infectious substances now included in category A, please refer to the relevant documentation on the WHO website:

http://www.who.int/csr/resources/publications/biosafety/en/WHO_CDS_ CSR_LYO_2004_9Final.pdf

26. Tubes, Dimensional Information

(cat page 55)

Dimensions provided in this table are given for guidance purposes only.

Barloworld Scientific reserves the right to make modifications without prior notice.

| Product Code | Diameter at Base (mm) | Height incl Cap (mm) | Diameter over Thread (mm) | ID (mm) | OD at Top (mm) |
|-----------------|-----------------------------|----------------------------|---------------------------------|------------|-------------------|
| 505 | 14.5 | 58 | N/A (internal cap) | 12.5 | 15.0 |
| S31 | 26.5 | 60 | 21.4 | 17.0 | 26.5 |
| 38091 | 27.0 | 60 | 21.6 | 16.0 | 27.0 |
| 142B | 14.5 | 100 (no cap) | N/A | 14.0 | 17.8 |
| 142AS | 14.5 | 101.5 | 17.7 | 14.0 | 15.7 |
| 144B | 14.5 | 109.5 (no cap) | N/A | 14.0 | 17.8 |
| 144AS | 14.5 | 114 | 17.7 | 14.0 | 15.7 |
| 36100 | 14.5 | 114 | 17.7 | 14.0 | 15.7 |
| 15PPR | 15.5 | 120 | 19.0 | 15.5 | 17.5 |
| 15PSR | 15.5 | 120 | 19.0 | 15.5 | 17.5 |
| 36050NP | G 28.0 | 118 | 31.5 | 27.5 | 29.5 |

27. Tubes, Centrifuge

RCF values and calculation

This catalogue lists a number of centrifuge tubes and other containers that are routinely used in centrifugation procedures. For reasons of safety, care must be taken not to exceed the maximum Relative Centrifugal Force (RCF) advised for the tube.

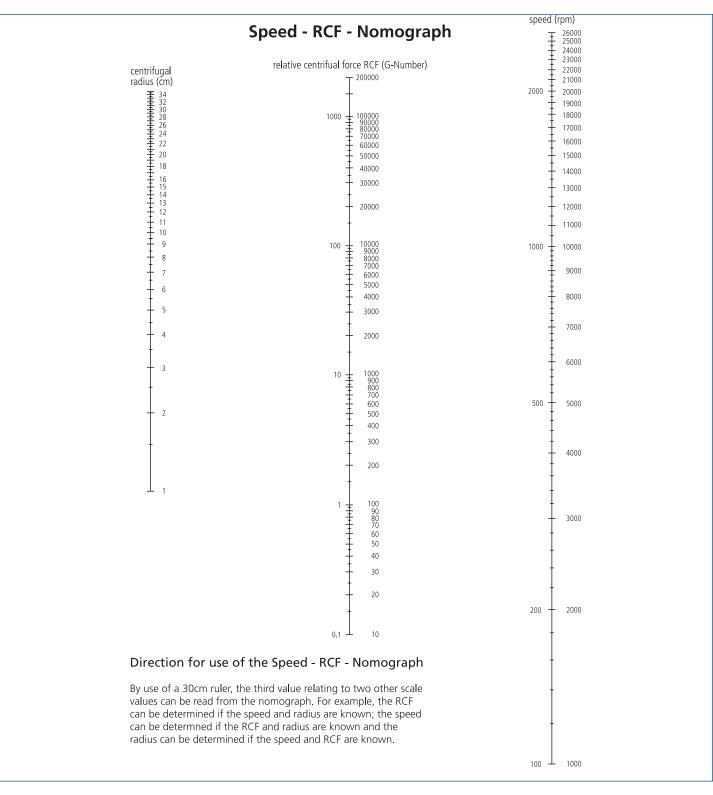
The following table and nomogram have been provided to give assistance in this respect.

Do note that the values are for tubes in good condition, used with balanced rotors, correct adaptors and the appropriate size buckets.

| Product Code | Description | Capacity (ml) | Material | Maximum Recommended RCF x g |
|-----------------|--|------------------|----------|-----------------------------------|
| 142B | Round base tube | 13.5 | PS | 3200 |
| 142AS | Round base tube, screw cap | 13.5 | PS | 3200 |
| 142ASR | Round base tube, wadded screw cap | 13.5 | PS | 3200 |
| 144B | Conical base tube | | PS | 3200 |
| 144AS | Conical base tube, screw cap | , 13.5 | PS | 3200 |
| 36100 | Conical base tube, wadded screw cap | | PS | 3200 |
| 15PPR | Centrifuge tube | 15.0 | PP | 6300 |
| 15PPB | Centrifuge tube | 15.0 | PP | 6300 |
| 15PSR | Centrifuge tube | 15.0 | PS | 3800 |
| 15PSB | Centrifuge tube | 15.0 | PS | 3800 |
| 36050NPG | Centrifuge tube | 50.0 | PP | 7200 |
| 36050CPG | Centrifuge tube | 50.0 | PP | 9200 |
| 112 | Round base tube, 40x11mm | 2.3 | PS | 4600 |
| RT25 | Round base tube, 65x10mm | 2.7 | PS | 2600 |
| RT30 | Round base tube, 75x12mm | 4.9 | PS | 5400 |
| 128 | Universal containe | r 30.0 | PS | 3800 |
| 129 | Bijou | 7.0 | PS | 7200 |

See opposite page for nomogram and working examples

i



Example 1

If the centrifugal radius is 14 cm, and the relative centrifugal force is 10,000 x g, using a 30 cm ruler, the centrifuge speed is calculated as 8,000 rpm.

Example 2

If the centrifugal radius is 23 cm, the relative centrifugal force is 300 x g, using a 30 cm ruler, the centrifuge speed is calculated as 1,100 rpm.

Ca

| Catalogue Number | Page Number |
|------------------|-------------|
| 1 | |
| 1000-035 | 72 |
| 1000PPN | 19 |
| 1000PETG | |
| 1000PETGNT | 8 |
| 1001PPN | 19 |
| 1002PPI | 19 |
| 100CTP | 64 |
| 100CTP1 | 64 |
| 100CTS | 64 |
| 100CTS1 | 64 |
| 100FLMS | 18 |
| 100FLPLS | 18 |
| 100FLS | 18 |
| 101/IRR | 32 |
| 1010-060 | 72 |
| 101R20 | 32 |
| 101RT | 32 |
| 101RT/IRR | 32 |
| 101V/IRR | 32 |
| 101VAMB | 33 |
| 101VBLUE | 33 |
| 101VR05TB | 33 |
| 101VR18TB | 33 |
| 101VR20 | 32 |
| 101VRED | 33 |
| 1020-100 | 72 |
| 103 | 34 |
| 1030-150 | 72 |
| 109 | 34 |
| 1100-025 | 76 |
| 1110-075 | 76 |
| 112 | 62 |
| 1137/03D | 91 |
| 1137/06D | 91 |
| 1137/08D | 91 |
| 1137/10D | 91 |
| 1160-225 | 76 |
| 121V | 32 |
| 122 | 32 |
| 123 | 32 |
| 124 | 32 |
| 125AM | 12 |
| 125AP | 12 |
| 125BM | 12 |
| 125BP | 12 |
| 125CM | 12 |
| 125CP | 12 |
| 125PYR | 14 |
| 128A | 11 |
| 128B | 11 |
| 128BBAC | 11 |
| 128C | 11 |
| 128DB/IRR | 15 |
| | |

| Catalogue Number | Page Number |
|------------------------|-----------------|
| 128PYR | 14 |
| 128SA | 12 |
| 128SB | 12 |
| 128SBB | 12 |
| 128SC | 12 |
| 129A | 10 |
| 129AX/1 | 10 |
| 129B | 10 |
| 129BBAC | 10 |
| 129BX/1 | 10 |
| 129PYR | 14 |
| 142AS | 59 |
| 142ASR | 59 |
| 142B | 59 |
| 144AS | 59 |
| 144B | 59 |
| 144C | 52 |
| 145C | 52 |
| 147A | 59 |
| 147C | 52 |
| 148C | 52 |
| 15PPB | 60 |
| 15PPR | 60 |
| 15PSB | 60 |
| 15PSR | 60 |
| 1636/24MP 1636/26MP | <u>91</u> 91 |
| 1636/04MP | 91 |
| 1636/30MP | 91 |
| 1636/32MP | 91 |
| 1636/34MP | 91 |
| 1636/36MP | 91 |
| 165A | 13 |
| 165B | 13 |
| 165C | 13 |
| 165KS01 | 53 |
| 165KS100 | 53 |
| 165PYR | 14 |
| 170C | 52 |
| 1803-096 | 73 |
| 1804-096 | 73 |
| 18108CST | 50 |
| 18110CST | 50 |
| 18111CST | 50 |
| 18114CST | 50 |
| 18116CST | 50 |
| 18190CST | 50 |
| 18192CST | 50 |
| 1820-024 | 79 |
| 1830-048 | 79 |
| 185AM | 13 |
| 185AP | 13 |
| 185BM | 13 |
| 185BP | 13 |
| 185CM | 13 |

| Catalogue Number | Page Number |
|---------------------|-------------|
| 185CP | 13 |
| 185DB/IRR | 15 |
| 185PYR | 14 |
| 190A | 13 |
| 190B | 13 |
| 190C | 13 |
| 190DB/IRR | 15 |
| 190PYR | 14 |
| 191 | 24 |
| 191BLUE | 24 |
| 1978202 | 24 |
| 192 192BLUE | 24 |
| | |
| 193A | 18 |
| 194IW | 24 |
| 194IWBLUE | 24 |
| 195PPD | 24 |
| 1CRES | 56 |
| 1CRIS | 56 |
| 2 | |
| 200C | 44 |
| 200PPD | 24 |
| 200PPN | 19 |
| 2012-003 | 74 |
| 201C | 44 |
| 201PPN | 19 |
| 202C | 44 |
| 202PPI | 19 |
| 2032-013 | 74 |
| 2052-025 | 74 |
| 2053-025 | 74 |
| 2055-033 | 74 |
| 205PPD | 24 |
| 210PPD | 24 |
| 2132-050 | 74 |
| 2150N | 59 |
| 2150R | 59 |
| 215PPD | 24 |
| 220R | 22 |
| 221M | 22 |
| 2215 | 22 |
| 222M | 22 |
| 2225 | 22 |
| 2322-015 | 82 |
| 2323-015 | 82 |
| 2324-015 | 82 |
| 2325-015 | 82 |
| 2342-050 | 82 |
| 2343-050 | 82 |
| 2343-050 | 82 |
| 2345-050 | 82 |
| 2545-050 250PETG | |
| | 8 |
| 250PETGNT | 8 |
| 28308 | 26 |
| 28316 | 26 |

| Catalogue Number | Page Number |
|------------------|-------------|
| 28324 | 26 |
| 28332 | 26 |
| 28340 | 26 |
| 28357 | 26 |
| 28365 | 26 |
| 28373 | 26 |
| 28381 | 26 |
| 28399 | 26 |
| 28407 | 26 |
| 28415 | 26 |
| 28423 | 26 |
| 28431 | 26 |
| 28449 | 26 |
| 28456 | 26 |
| 28464 | 26 |
| 28472 | 26 |
| 28480 | 26 |
| 28498 | 26 |
| 28894 | 44 |
| 28951 | 44 |
| 2CRER | 56 |
| 2CRES | 56 |
| 2CRIR | 56 |
| 2CRIS | 56 |
| 3 | |
| 3000-035 | 72 |
| 300FLS | 18 |
| 300FLPLS | 8 |
| 3010-60 | 72 |
| 3020-100 | 72 |
| 30205 | 68 |
| 30206 | 69 |
| 30254 | 68 |
| 30255 | 69 |
| 3030-150 | 72 |
| 30304 | 68 |
| 30305 | 69 |
| 30311 | 68 |
| 30312 | 68 |
| 30314 | 68 |
| 30315 | 68 |
| 30317 | 68 |
| 30318 | 68 |
| 30321 | 69 |
| 30322 | 70 |
| 30324 | 69 |
| 30325 | 70 |
| 3032 | 69 |
| 30328 | 70 |
| 30331 | 69 |
| 30332 | 70 |
| 30334 | 69 |
| 30335 | 70 |
| 30337 | 69 |
| | |

| Catalogue Number | Page Number |
|------------------|-------------|
| 30338 | 70 |
| 30353 | 70 |
| 30403 | 70 |
| 30452 | 70 |
| 30502 | 70 |
| 30890 | 62 |
| 30908 | 62 |
| 30924 | 62 |
| 30932 | 62 |
| 30981 | 62 |
| 3100-025 | 75 |
| 3102-025 | 75 |
| 3103-025 | 76 |
| 31040 | 62 |
| 31050 | 62 |
| 3110-075 | 75 |
| 3113-025 | 75 |
| 3120-150 | 75 |
| 3123-075 | 75 |
| 3133-150 | 76 |
| | |
| 3143-225 | 76 |
| 3160-225 | 75 |
| 328C | 54 |
| 330C | 54 |
| 35002S | 57 |
| 352 001 | 88 |
| 36050CPG | 60 |
| 36050NPG | 60 |
| 36100 | 56 |
| 370 271 | 88 |
| 3801-096 | 73 |
| 3802-096 | 73 |
| 38091 | 58 |
| 3810-006 | 78 |
| 3815-012 | 78 |
| 3820-024 | 78 |
| 3830-048 | 78 |
| 3860-096 | 78 |
| 3861-096 | 78 |
| 3870-096 | 78 |
| 3875-096 | 79 |
| 3881-096 | 73 |
| 3882-096 | 73 |
| 3883-096 | 73 |
| 3900-035 | 77 |
| 3901-035 | 77 |
| 3930-035 | 77 |
| 3931-035 | 77 |
| 39503T | 20 |
| 3CRES | 56 |
| 4 | |

| 4 | |
|----------|----|
| 4000-010 | 80 |
| 4000-020 | 81 |
| 4000-030 | 80 |

| Catalogue Number | Page Number |
|------------------|-------------|
| 4000-040 | 81 |
| 400PPN | 19 |
| 4010-010 | 80 |
| 4010-020 | 81 |
| 4010-030 | 80 |
| 4010-040 | 81 |
| 40101K | 39 |
| 40101NPK | 39 |
| 40102K | 39 |
| 40102NPK | 39 |
| 40105 | 39 |
| 40105NP | 39 |
| 40125 | 39 |
| 40125NP | 39 |
| 401PPN | 19 |
| 4020-010 | 80 |
| 4020-020 | 81 |
| 4020-030 | 80 |
| 4020-040 | 81 |
| 402PPI | 19 |
| 4030-010 | 80 |
| 40301K | 39 |
| 40302K | 39 |
| 40305 | 39 |
| 40501K | 40 |
| 40502K | 40 |
| 408CST | 51 |
| 4100-010 | 80 |
| 4100-020 | 81 |
| 4110-010 | 80 |
| 41301K | 41 |
| 41302K | 41 |
| 41305 | 41 |
| 41310 | 41 |
| 414CST | 51 |
| 4160-10 | 80 |
| 40023 | 91 |
| 42505 | 41 |
| 42510 | 41 |
| 43301PK | 41 |
| 43302PK | 41 |
| 4506/45D | 90 |
| 4506/45E | 90 |
| 4506/45F | 90 |
| 4506/45G | 90 |
| 4516/45D | 90 |
| 451CST | 52 |
| 47105 | 39 |
| 47105N | 40 |
| 47110 | 39 |
| 47110N | 40 |
| 47150 | 39 |
| 47305 | 39 |
| 47305N | 40 |
| 47310 | 39 |
| | |

| Catalogue Number | Page Number |
|------------------|-------------|
| 47310N | 40 |
| 47505 | 40 |
| 47510 | 40 |
| 47525 | 40 |
| 47550 | 40 |
| 4810-010 | 80 |
| 4810-020 | 81 |
| 4815-010 | 80 |
| 4815-020 | 81 |
| 4816-060 | 81 |
| 4820-010 | 80 |
| 4820-020 | 81 |
| 4822-010 | 80 |
| 4822-040 | 81 |
| 4826-060 | 81 |
| 4832-010 | 80 |
| 4832-040 | 81 |
| 4860-010 | 80 |
| 4860-020 | 81 |
| 4862-010 | 80 |
| 4862-040 | 81 |
| 4866-060 | 81 |
| 49635 | 63 |
| 49684 | 63 |
| 4CRES | 56 |
| 4CRIR | 56 |
| 4CRIS | 56 |

5

| 8 |
|---|
| 8 |
| 8 |
| 8 |
| 54 |
| 34 |
| 33 |
| 54 |
| 33 |
| 54 |
| 33 |
| 35 |
| 58 |
| 2 |
| |
| 2 |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 2 |
| 2 |
| 2 |
| 2 |
| 2 |
| 2 |
| 18 |
| 18 |
| 18 |
| |

| Catalogue Number | Page Number |
|------------------|-------------|
| 5700-001 | 72 |
| 5710-002 | 72 |
| 5720-004 | 72 |
| 5730-008 | 72 |
| 5816-006 | 78 |
| 5826-024 | 78 |
| 5866-096 | 78 |
| 5882-096 | 77 |
| 5883-384 | 77 |
| 58909 | 19 |
| 5CRES | 56 |
| 5CRIR | 56 |
| | |

6

| 60FLPLS | 18 |
|----------|----|
| 60FLPMS | 18 |
| 60FLS | 18 |
| 611F96 | 30 |
| 611F96BK | 30 |
| 611F96WT | 30 |
| 611U96 | 30 |
| 611V96 | 30 |
| 612F96 | 30 |
| 612U96 | 30 |
| 612V96 | 30 |
| 642000 | 30 |
| | |

7

| 7077-10N | 42 |
|----------|----|
| 7077-1N | 42 |
| 7077-2N | 42 |
| 7077-5N | 42 |
| 7078-10N | 42 |
| 7078-1CN | 42 |
| 7078-1N | 42 |
| 7078-2N | 42 |
| 7078-5N | 42 |
| 7078-5X | 42 |
| 7078B-1 | 43 |
| 7078B-10 | 43 |
| 7078B-25 | 43 |
| 7078B-5 | 43 |
| 7078B-50 | 43 |
| 7079-10N | 43 |
| 7079-1N | 43 |
| 7079-2N | 43 |
| 7079-5N | 43 |
| 7079-5X | 43 |
| 75CTP | 64 |
| 75CTP1 | 64 |
| 75CTS | 64 |
| 75CTS1 | 64 |
| | |
| 9 | |
| 9000-220 | 79 |

| 9010-320 | 79 |
|------------|----|
| 902C | 53 |
| 903C | 53 |
| 904C | 53 |
| 905C | 53 |
| 922C | 53 |
| 926C | 53 |
| 9330-050 | 63 |
| 99445-10 | 63 |
| 99445-12 | 63 |
| 99445-13 | 63 |
| 99445-15 | 63 |
| 99445-16 | 63 |
| 99445-16X | 63 |
| 99445-16XX | 63 |
| 99445-18 | 63 |
| 99445-20 | 63 |
| 99448-16 | 63 |
| 99448-19 | 63 |
| 99449-13 | 63 |
| 99449-16 | 63 |
| 99449-16X | 63 |
| 99449-16XX | 63 |
| 99449-20 | 63 |
| 99449-20X | 63 |
| 9998-13 | 64 |
| 9998-15 | 64 |
| 9998-18 | 64 |
| 99999-13 | 64 |
| 99999-15 | 64 |
| 99999-18 | 64 |

Catalogue Number

Page Number

| BCB25 | 46 |
|--------|----|
| BCB30 | 46 |
| BCB70 | 47 |
| BCR10 | 47 |
| BCR20 | 47 |
| BCT10 | 46 |
| BCT100 | 48 |
| BCT110 | 48 |
| BCT20 | 46 |
| BCT25 | 46 |
| BCT30 | 46 |
| BCT40 | 46 |
| BCT50 | 47 |
| BCT60 | 47 |
| BCT70 | 47 |
| BCT70S | 47 |
| BCT80 | 47 |
| BCT90 | 47 |
| BCTR10 | 46 |
| BCTR20 | 46 |
| BCTR25 | 46 |
| BCTR30 | 46 |
| | |

| Catalogue Number | Page Number |
|------------------|-------------|
| BCTR60 | 47 |
| BCTR70 | 47 |
| BDA208P | 84 |
| BDA212P | 84 |
| BDA218P | 84 |
| BDA224P | 84 |
| BDA234P | 84 |
| BDA236P | 84 |
| BDA238P | 84 |
| BDA240P | 84 |
| BDA242P | 84 |
| BG50 | 6 |
| BG50E | 6 |
| BG60 | 6 |
| BG60E | 6 |
| BG92 | 6 |
| с | |
| C2A | 62 |
| | |

| CZA | 62 |
|----------|----|
| CB162 | 93 |
| CB302 | 93 |
| CPS0100P | 84 |
| CPS0250P | 84 |
| CPS0500P | 84 |
| CPS1000P | 84 |
| CRBOX1 | 58 |
| CRBOX2 | 58 |
| CRBOX3 | 58 |
| CRBOX4 | 58 |
| CRINM | 57 |

F

| FBD02AD | 96 |
|---------|----|
| FBD02DD | 96 |
| FBD03AD | 96 |
| FBD03DD | 96 |
| FBF3501 | 96 |
| FBF3502 | 96 |
| FBF3503 | 96 |
| FBF3504 | 96 |
| FBF3505 | 96 |
| FBF3506 | 96 |
| FBF3507 | 96 |
| FBF3508 | 96 |
| FBF3509 | 96 |
| FBF3510 | 96 |
| FBF4462 | 96 |
| FBF4463 | 96 |
| FBF4464 | 96 |
| FBF4465 | 96 |
| FBF4467 | 96 |
| FBF4468 | 96 |
| FBF4469 | 96 |
| FBF4470 | 96 |
| FBF4471 | 96 |
| | |

| Catalogue Number | Page Number |
|------------------|-------------|
| FTC3105D | 94 |
| FTC31B05 | 94 |
| FTC31B02 | 94 |
| FTC3105D | 94 |
| FTC41S5D | 94 |
| FTC41H2D | 94 |
| FTC41F2D | 94 |
| FTC4384D | 94 |
| FTC41FLD | 94 |
| FTC41B5D | 94 |
| FTC41BHD | 94 |
| FTC41BFD | 94 |
| FTC4B384 | 94 |
| FTC41BID | 94 |
| FTC51S5D | 95 |
| FTC51H2D | 95 |
| FTC51F2D | 95 |
| FTC5384D | 95 |
| FTC51FLD | 95 |
| FTC515BD | 95 |
| FTC51BHD | 95 |
| FTC51BFD | 95 |
| FTC5B384 | 95 |
| FTC51BID | 95 |
| F150CA | 52 |
| F152CA | 52 |
| F155CA | 52 |
| F160CA | 52 |
| F168CA | 52 |

G

| G-PLATE | 36 |
|---------|----|
| | |
| I | |
| IBB001P | 85 |
| IBB002P | 85 |
| IBB003P | 85 |
| 121014 | 4 |

L

| 17 |
|----|
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| 17 |
| |

| Catalogue Number | Page Number |
|------------------|-------------|
| LXP60 | 17 |
| LXP60L | 17 |
| LXP60LR | 17 |
| LXP60R | 17 |
| LXPB125L | 17 |
| LXPB180 | 17 |
| LXPB180L | 17 |
| LXPB40 | 17 |
| LXPB60 | 17 |
| LXPB60L | 17 |
| LXPR125 | 17 |
| LXPR180L | 17 |
| LXPR60L | 17 |

Μ

| MCE100 | 65 |
|---------|----|
| MCE200 | 65 |
| MCE3 | 65 |
| MCE4 | 66 |
| MCE5 | 66 |
| MP52 | 14 |
| MPE0712 | 3 |
| MPE0717 | 3 |
| MPE1730 | 3 |
| MPE2530 | 3 |

Ν

| NA2 | 61 |
|------|----|
| NA2L | 61 |

Ρ

| PC2000 | 93 |
|-------------|----|
| PF55 | 32 |
| PF55V | 32 |
| PP88SA | 44 |
| PP88SB | 44 |
| PP89SA | 44 |
| PP89SB | 44 |
| PRM0050100P | 86 |
| PRM0100100P | 86 |
| PRM0100160P | 86 |
| PRM0100200P | 86 |
| PRM0160160P | 86 |
| PRM0200100P | 86 |
| PRM0300100P | 86 |
| PRM0300160P | 86 |
| PRM0400100P | 86 |
| PRM0400160P | 86 |
| PRM0400200P | 86 |
| PRM0500100P | 86 |
| PRM0500160P | 86 |
| PRM0600160P | 86 |
| PRM0630160P | 86 |
| PRM0630200P | 86 |
| PRM0630250P | 86 |
| | |

Catalogue Number

Page Number

| Catalogue Number | Page Number |
|------------------|-------------|
| PRM0630320P | 86 |
| PRM0800160P | 86 |
| PRM0800200P | 86 |
| PRM0800250P | 86 |
| PRM0800400P | 86 |
| PRM0900250P | 86 |
| PRM0900320P | 86 |
| PRM1000200P | 86 |
| PRM1270320P | 86 |
| PRM1600320P | 86 |
| Q | |
| QL1 | 28 |
| QL10 | 28 |
| QLIU | 20 |
| R | |
| RSI50 | 92 |
| RT15 | 62 |
| RT20 | 62 |
| RT25 | 62 |
| RT30 | 62 |
| | |
| S | |
| S23B | 2 |
| S23C | 2 |
| S23E | 2 |
| S28 | 42 |
| S28BL | 42 |
| S31 | 58 |
| S400 | 4 |
| S405 | 4 |
| S408 | 4 |
| S435 | 4 |
| SB2 | 92 |
| SB3 | 92 |
| SB3/1 | 92 |
| SB3/2 | 92 |
| SB3/3 | 92 |
| SC6 | 92 |
| SC6/1 | 92 |
| SC6/1/3 | 92 |
| SI50 | 92 |
| SL10H | 28 |
| SL10S | 28 |
| SL1H | 28 |
| SL1S | 28 |
| SN20 | 28 |
| SPCS01 | 28 |
| SPCS05 | 28 |
| SPM1 | 4 |
| SSL1 | 93 |
| SSM1 | 93 |
| SWP062 | 85 |

| т | |
|-------------|----|
| T2905C | 53 |
| TSRBGE010 | 87 |
| TSRBGE011 | 87 |
| TSRBGE013 | 87 |
| TSRBGE015 | 87 |
| TSRBGE019 | 87 |
| TSRBGE021 | 87 |
| TSRBGE023 | 87 |
| TSRBGE027 | 87 |
| TSRBGE037 | 87 |
| TSRBGN07D | 87 |
| TDSC0190016 | 87 |
| TDSC0220016 | 87 |
| TDSC0254016 | 87 |
| TDSC0270016 | 87 |
| TDSC0365016 | 87 |
| TDSC0472216 | 87 |
| TDSC0478516 | 87 |
| TDSC058016 | 87 |
| TDSC0560016 | 87 |
| TDSC0190032 | 87 |
| TDSC0200032 | 87 |
| TDSC0220032 | 87 |
| TDSC0254032 | 87 |
| TDSC0270032 | 87 |
| TDSC0365032 | 87 |
| TDSC0444032 | 87 |
| TDSC0476063 | 87 |
| TDSC0472063 | 87 |
| | |

U

| UC/30 | 20 |
|------------|----|
| UNIS4/MCE1 | 65 |
| UNIS4/MCE4 | 66 |

V

| VIT-C001 | 82 |
|----------|----|
| | |

W

| WKS1 | 82 |
|----------|----|
| WTR250P | 85 |
| WTR500P | 85 |
| WTR250VT | 85 |
| WTR500VT | 85 |
| WGWPEN01 | 85 |

Z

| Z10PE | 61 |
|---------|----|
| Z10PENL | 61 |
| Z10PS | 61 |
| Z10PSNL | 61 |
| Z5PE | 61 |
| Z5PENL | 61 |

| Catalogue Number | Page Number |
|------------------|-------------|
| Z5PS | 61 |
| Z5PSNL | 61 |

index (alphabetical)

Page Number

Α

| Absorbent Paper - BenchGuard | 6 |
|------------------------------|--------|
| Assay Plates | 30, 73 |
| Autoclave Bags | 2 |
| Autoclave Bag Holders | 2-3 |
| Autoclave Basket | 84 |

В

| Bags | |
|------------------------------|-------|
| - Autoclave | 2 |
| - Biohazard | 2 |
| -Homogeniser | 4 |
| - Metal Closure | 3 |
| - Sampling | 3 |
| Basket | 84 |
| BenchGuard – Absorbent Paper | 6 |
| Beakers, Weighing | 70 |
| Bijou Container, Glass | 20 |
| Bijou Container, Polystyrene | 10 |
| Blood Tube Rotator | 92 |
| Boats, Weighing | 68-70 |
| Boric Acid Container | 10,11 |
| Bottles | |
| - Media | 90 |
| - Wash | 85 |
| - Water Sampling | 8 |
| Box, Pipette Tips | 48 |
| | |

С

| Cell Biology | |
|-----------------------------|-----------|
| - Chamber Slides | 72 |
| - Dishes | 72 |
| - Elisa/Assay Plates | 73 |
| - Filters, Membrane | 74 |
| - Flasks | 75-76 |
| - Glass Based Dishes | 77 |
| - Glass Based Plates | 77-78 |
| - Multiwell Plates | 78-79 |
| - Pipettes | 38-43 |
| - Scrapers | 79 |
| - Substrate Coated Products | 80-82 |
| - Tubes 60, | 62-64, 82 |
| Cell Scraper | 79 |
| Centrifuge Tubes | 59-60, 82 |
| Chamber Slides | 72 |
| Coated Tissue Culture Ware | 80-82 |
| Collagen 1, Coated Ware | 80-82 |
| Colony Counter | 92 |
| Coloured Petri Dishes | 33 |
| Compartmented Petri Dishes | 33 |
| Contact Plate | 35 |
| Containers | |
| - 24 Hour Urine | 19 |
| - Bijou, Glass | 20 |

| - | |
|-----------------------------|-------|
| - Bijou, Polystyrene | 10 |
| - Double Bagged | 15 |
| - Glass Disposable | 20 |
| - Mucus Extractor | 14 |
| - Non-Pyrogenic | 14 |
| - Polypropylene, Screw Cap | 16-18 |
| - Polypropylene, Hinged Lid | 18 |
| - Polypropylene, Snap Cap | 19 |
| - Polystyrene | 10-15 |
| -Screw Cap Jar | 26 |
| - Universal, Glass | 20 |
| - Universal, Polystyrene | 11 |
| Cryogenic Vials | 56-57 |
| Cryogenic Vial Storage Box | 58 |
| Cryogenic Vial Workstation | 57 |
| Culture Tubes | |
| - Glass Disposable | 63-64 |
| - Glass Reusable | 91 |
| - Plastic Disposable | 64 |
| Cuvettes | 22 |
| Cuvette Rack | 22 |
| Cylinders, Measuring | 84 |
| | |

Page Number

D

Item

| Detergent, Lipsol | 91 |
|--------------------------|-------|
| Dippers | 24 |
| Discs, Silicone Rubber | 87 |
| Dishes | |
| - Glass Based | 77 |
| - Substrate Coated | 80-81 |
| - Petri | 32-36 |
| - TC Treated | 72 |
| - TC Untreated | 72 |
| Dish Scraper | 79 |
| Double Bagged Containers | 15 |
| | |

E

| Elisa Plates | 73 |
|--------------------------|----|
| Environmental Swabs | 53 |
| Erlenmeyer Flasks, Glass | 91 |
| ESR Pipettes | 42 |

F

| Fibronectin Coated Ware | 80 |
|-------------------------|-------|
| Filter, Membrane | 74 |
| Flasks | |
| - Erlenmeyer, Glass | 91 |
| - Substrate Coated | 80-81 |
| - TC Treated | 75-76 |
| - TC Untreated | 76 |
| - Vented | 76 |
| - Non-Vented | 75-76 |
| Flask Scraper | 79 |

| Item | Page Number |
|--------------------------|-------------|
| G | |
| Gelatin Coated Ware | 81 |
| Glass Based Dishes | 77 |
| Glass Based Plates | |
| - Culture | 78 |
| - Assay | 77 |
| - Substrate Coated | 80-81 |
| Glass Containers | 20 |
| Glass Pipettes | 42-43 |
| Glass Tubes | 63-64, 91 |
| н | |
| Homogeniser Bags | 4 |
| Hotplate Stirrer | 93 |
| 1 | |
| Ice Buckets | 85 |
| Incubator Shaker | 92 |
| Inoculating Loops | 28 |
| Inoculating Needles | 28 |
| J | |
| - | 26 |
| Jars, Screw Cap | 20 |
| L | |
| Lipsol Detergent | 91 |
| Loops | 28 |
| м | |
| Measuring Cylinders | 84 |
| Media Bottles | 90 |
| Membrane Filters | 74 |
| Metal Closure Bags | 3 |
| Microcentrifuge Tubes | 59 |
| Microtitration Plates | 30 |
| Milk Pipettes | 41 |
| Multiwell Plates | |
| - Assay | 30, 73 |
| - Elisa | 73 |
| - Glass Based | 77-78 |
| - Substrate Coated | 80-81 |
| - TC Treated | 78 |
| - TC Untreated | 79 |
| N | |
| Needles | 28 |
| Non-Pyrogenic Containers | |
| | |
| P Datri Dish Haldar | 05 |
| Petri Dish Holder | 85 |
| Petri Dishes | |

| 00 |
|----|
| |
| 33 |
| 33 |
| 35 |
| 34 |
| |

index (alphabetical)

Item Page

Page Number

| - Standard | 32 |
|--------------------|-------|
| - TC Treated | 72 |
| - Training Aids | 36 |
| - Triple Bagged | 33 |
| PH Meter | |
| - Portable | 88 |
| - Bench | 88 |
| Pipette Tips | 46-48 |
| Pipette Tip Boxes | 48 |
| Pipettes | |
| - ESR | 42 |
| - Glass | 42-43 |
| - Milk | 41 |
| - Narrow Orifice | 40 |
| - Open Ended | 41 |
| - Plastic Transfer | 44 |
| - Polystyrene | 38-42 |
| - Serological | 38-42 |
| - Shortie | 41 |
| - Unplugged | 39 |
| Pipettor | 93 |
| Plain Swabs | 52 |

R

| Rack, Cuvette | 22 |
|----------------------------|----|
| Rack, Microcentrifuge Tube | 59 |
| Rotators | 92 |

S

| Sample Transport | 65-66 |
|----------------------------|-------|
| Sampling | |
| - Bags | 3 |
| - Straws | 4 |
| - Utensil | 4 |
| Scintillation Vials | 58 |
| Scrapers | 79 |
| Serological Pipettes | 38-43 |
| Shaker Incubator | 92 |
| Shaker, Orbital | 93 |
| Shortie Pipettes | 41 |
| Silicone Rubber | |
| - Discs | 87 |
| - Stoppers | 87 |
| - Tubing | 86 |
| Spectrophotometer | 89 |
| Spork | 4 |
| Spreaders | 28 |
| Square Petri Dishes | 34 |
| Stirrer Hotplate | 93 |
| Straws, Sampling | 4 |
| Substrate Coated Ware | 80-81 |
| Swabs | |
| - Environmental/Rinse Kits | 53 |
| - M40 | 51 |
| - Plain | 52 |

Item

| - Transport | 50-51 |
|-------------|-------|
| - Viral | 52 |
| - UTM | 54 |
| | |

Page Number

Т

_

| Technical Information | 97-109 |
|----------------------------|-----------|
| | 97-109 |
| Thermal Cyclers | 94-95 |
| Trac Bottle | 10 |
| Transport Packaging System | 65-66 |
| Transport Swabs | 50-51 |
| Tubes | |
| - Centrifuge | 59-60, 82 |
| - Culture Plastic | 64 |
| - Culture Glass | 63-64 |
| - Glass Disposable | 63-64 |
| - Glass Reusable | 91 |
| - Plastic Disposable | 59-62 |
| - Tubing, Silicone | 86 |
| | |

U

| Universal Containers, Glass | 20 |
|-----------------------------------|-------|
| Universal Containers, Polystyrene | 11 |
| Urine Collection, 24 Hour | 19 |
| U.N. Packaging System | 65-66 |
| UTM Swab | 54 |

V

| Vials | |
|-----------------------|-------|
| - Cryogenic | 56-57 |
| - Scintillation | 58 |
| Viral Transport Swabs | 52 |

W

| Wash Bottles | 85 |
|------------------------|-------|
| Water Sampling Bottles | 8 |
| Weighing Beakers | 70 |
| Weighing Boats | 68-70 |

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