

# Evaporators, Sealers and other Equipment

## Product Overview

- prices upon request -

### Evaporators



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**NEW!**



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**NEW!**



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# Evaporators

Porvair evaporators provide a fast evaporation of liquids (e.g. methanol, acetonitrile, or hexane) in microplates, small bottles, HPLC vials, and tubes. Faster than centrifugal evaporation for single plates, significant increases in sample throughput are achieved through advanced evaporator head technology and an innovative manifold design, which directly injects heated nitrogen or dry compressed air into each individual well of a microplate or into individual vessels simultaneously. Installation requires only a connection to a gas supply and mains electricity.

Please note: The units are not suitable for use with strong acids or acid chlorides.

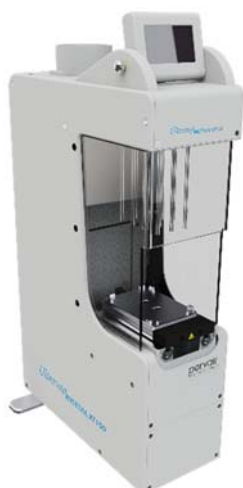
## Ultravap® Mistral and Ultravap® Mistral XT150

### Fully automation ready blow-down evaporator

The Ultravap® Mistral from Porvair Sciences is designed to remove the typical laboratory 'bottleneck' of solvent evaporation from microplates. The Mistral is an automation friendly evaporator especially developed for the use with liquid handling systems. Safety of operation is ensured as this CE-marked compact unit fits into all fume cupboards and boasts full integral fume management within the unit.



Ultravap® Mistral



Ultravap® Mistral XT150

- **Automatic evaporator for use with liquid handling systems**
- Plate shuttle sends/retrieves plates from robot deck, compatible with robotic liquid handlers from Agilent™, PerkinElmer®, Tecan®, Hamilton™ and Beckman Coulter®
- Adjustable shuttle position and height
- Choice of 12-, 24-, 48-, 96-, and 384-well heads with straight or spiral needles
- Increased rate of sample dry down with evaporation temperature of 80 °C which reduces drying times up to 50 %
- Manufactured for use with ANSI/SLAS standard plates with a maximum height of 80 mm (only in combination with 96-well needle head **500199**, otherwise 55 mm), Mistral XT150 accepts plates or vials up to 150 mm high.
- Up to 15 stored evaporation programmes and up to 5 programmable steps per method
- New PAUSE mode for improved method development
- Rise and height of evaporation table, gas temperature, pressure and flow rate can be programmed individually
- Small footprint to fit into all standard fume cupboards
- Unit can be used with nitrogen or dry compressed air
- On-board digital flow controller allows accurate programming of real gas flow rates
- Intuitive graphical colour touch screen display with optional anti-splash membrane
- Integrated LED lights for better sample visibility
- Also suitable for evaporation of HPLC samples in 1.5 ml HPLC vials using the 48-well head
- RS232 allows remote control via PC or liquid handling robot
- CAN bus gives possibility to main- and several secondary system configurations
- Integrated auto-ranging power supply (110/230 V) and built-in fume venting

| Cat. No. | Description  |
|----------|--|
| 500149   | Ultravap® Mistral, without needle head   |
| 500292   | Ultravap® Mistral XT150, specially designed to fit tubes up to 150 mm, without needle head |
| 500199   | 96-well short straight needle head for use with plates up to 80 mm high                    |
| 500196   | High plate guard for Ultravap™ Mistral   |
| 500194   | Optional fume extractor fan complete plug-in assay with housing                            |
| 500193   | CAN bus interface cable with RS232 initiator and CAN terminator plugs                      |

→ Please see page 5 for needle heads and additional accessories

## Ultravap® Levante

### Automation ready blow-down evaporator

The Ultravap® Levante is the latest evaporator of the successful Ultravap® series of Porvair Sciences. The fully automatic evaporator combines stability through a robust and solvent resistant aluminium housing and the latest technology to fulfill the needs of modern laboratories. A touch screen and an easy-to-use programming allow a quick start of the device.



Ultravap® Levante

- **Automatic robot-compatible evaporator**
- Choice of 12-, 24-, 48-, 96-, and 384-well heads with straight or spiral needles
- Increased rate of sample dry down with evaporation temperature of 80 °C which reduces drying times up to 50 %
- Offering multi-step ramped programming with full alphanumeric programme naming
- Possible to save data on SD-card and upload it again
- Up to 5 stored evaporation programmes with 3 programmable steps per method
- New PAUSE mode for improved method development
- Rise and height of evaporation table, gas temperature and flow rate programmable
- Full colour touch screen display
- RS232 allows remote control via PC or liquid handling robot
- Can evaporate 500 µl methanol in approx. 5 minutes
- Compatible with robotic liquid handlers such as from Tecan®, Hamilton™ and Caliper™
- Integrated auto-ranging power supply (110/230 V) and built-in fume venting
- Accommodates plates up to 80 mm in height in a variety of configurations
- Also suitable for evaporation of HPLC samples in 1.5 ml HPLC vials or 2 ml Dram vials using the 48-well head
- On-board digital flow controller allows accurate programming of real gas flow rates
- Can be operated from a gas cylinder, an in-house supply of nitrogen or clean dry air
- Integrated LED lights for better sample visibility
- (w x d x h): 196 x 435 x 455 mm

| Cat. No. | Description   |
|----------|---|
| 500226   | Ultravap® Levante, without needle head                          |
| 500194   | Optional fume extractor fan complete plug-in assay with housing |

→ Please see page 5 for additional accessories

**porvair**  
sciences



### Krystal™ plates for luminescence and fluorescence

- Available with clear-, glass-, CoP- and quartz bottom
- Very low autofluorescence
- Biocompatible adhesive at the bottom
- 24-, 96- and 384-well formats
- Available in black and white, sterile and with lid
- Also with customized barcodes
- Krystal™ High and Medium Bind Microplates for big molecules and proteins

Please contact us for more information on Porvair Sciences' wide range of microplates.

## Ultravap® Gemini

### Two position blow-down evaporator

The Ultravap® Gemini brings together for the first time in the range of Porvair Sciences two individually temperature-regulated evaporation positions with a wide choice of head styles and configurations. This means you can dry down a 96-well deep well plate at the same time as 48 HPLC vials. This breakthrough in productivity will speed up the evaporation bottleneck in your laboratory, increase the sensitivity of your analyses and quicken sample processing times.



**Minivap® Gemini with two individually temperature-regulated evaporation positions**

- **Manual evaporator with two heads for high-throughput**
- Two individually temperature-regulated evaporation positions
- Simultaneous height adjustment of both plates
- Choice of 24-, 48-, and 96-well heads with straight or spiral needles
- Designed for ANSI/SLAS 96-well plates
- Easy adjustments of temperature, gas flow rates and needle depth into the wells
- Integrated auto-ranging power supply (110/230 V)
- Accommodates plates and vials up to 80 mm in height in a variety of configurations
- Also suitable for evaporation of HPLC samples in 1.5 ml HPLC vials using the 48-well head
- Can be operated from a gas cylinder, an in-house supply of nitrogen or clean dry air
- (w x d x h): 321 x 365 x 381 mm

| Cat. No. | Description                           |
|----------|---------------------------------------|
| 500234   | Ultravap® Gemini, without needle head |

## Ultravap® MINI Evaporator

Designed for low usage research and development departments where low numbers of individual plates or vials need drying. With manual control of the needle depth, gas temperature and flow rate, the Ultravap® MINI allows fine control and quicker drying times than other standard methods such as vacuum ovens.



**Ultravap® MINI with 96 straight needles**

- **Manually operated evaporator**
- Simple to install and operate
- Designed for ANSI/SLAS 96-well plates
- Available in 24-, 48-, and 96-needle configuration with straight or spiral needles
- Evaporates 500 µl methanol in less than 6 minutes
- Easy adjustments of temperature, gas flow rates and needle depth into the wells
- Compact footprint – fits all standard fume cupboards
- Can be used with nitrogen and dry compressed air
- Also suitable for evaporation of HPLC samples in 1.5 ml HPLC vials using the 48-well head
- Accommodates plates and vials up to 80 mm in height
- Faster drying times than other standard methods such as vacuum ovens
- (w x d x h): 180 x 380 x 382 mm
- Integrated auto-ranging power supply (110/230 V)

| Cat. No. | Description                        |
|----------|------------------------------------|
| 229206   | Ultravap® MINI without needle head |

→ Please see page 5 for additional accessories

## Accessories and spare parts for Porvair Evaporators

| Cat. No.  | Description   |
|-----------|---|
| 229414    | Needle head with 12 straight needles with <b>48 mm needles</b> for all Porvair evaporators  |
| 229415    | Needle head with 12 straight needles with <b>38 mm needles</b> for all Porvair evaporators  |
| 229409    | Needle head with 24 straight needles for all Porvair evaporators  |
| 229410    | Needle head with 48 straight needles for all Porvair evaporators  |
| 229072    | Needle head with 96 spiral needles for all Porvair evaporators  |
| 229036    | Needle head with 96 straight needles for all Porvair evaporators  |
| 229073    | Needle head with 384 straight needles for Ultravap™ Mistral and Ultravap™ Levante only  |
| 229650    | 24-well rack for 12 mm vials/tubes from solid aluminium   |
| 229216    | Disposable plastic vial rack with clear bottom for 24 x 13.75 mm glass vials  |
| 500109    | 48-well rack from black PP, ANSI/SLAS standard,<br>for 1.5 ml standard HPLC vials (also in our programme, enquire for more details) |
| 229048    | Gasket for needle manifold for all Porvair evaporators  |
| 500332-10 | Needle Head for 30 tubes of 10 mm OD (1 needle per tube)  |
| 500332-13 | Needle Head for 5 tubes of 13 mm OD (3 needle per tube)   |
| 500332-15 | Needle Head for 15 tubes of 15 mm OD (3 needle per tube)  |
| 500332-16 | Needle Head for 12 tubes of 16 mm OD (4 needle per tube)  |
| 500332-18 | Needle Head for 12 tubes of 18mm OD (4 needle per tube)   |
| 500332-96 | 96 Needle head for microplates  |
| 500333-10 | ANSI adaptor plate for 30 tubes of 10 mm OD   |
| 500333-13 | ANSI adaptor plate for 15 tubes of 13 mm OD   |
| 500333-15 | ANSI adaptor plate for 15 tubes of 15 mm OD   |
| 500333-16 | ANSI adaptor plate for 12 tubes of 16 mm OD   |
| 500333-18 | ANSI adaptor plate for 12 tubes of 18 mm OD   |

## Scorpion Plate Handler

**NEW!**



- Automated plate handling for a number of liquid handling systems
- Very versatile: works with a wide range of plates, tube racks, shallow and deep well microplates.
- Can accommodate up to 50 x 96-well plates or up to 72 x 384-well or 1536-well plates
- 4 standard formats: standard left or standard right feed, offering side placement from plate centre to plate centre with maximum arc to 280 mm or extended with maximum arc to 342 mm
- Easy to programme
- Operator and integrator friendly
- Direct integration via RS232 link
- Suitable for all SLAS/ANSI sized applications and a range of racks
- Handles all plates with or without lid (lid lift available optionally)
- (w x d x h): 773 x 655 x 650 (full height) or 325 mm (half height)

| Cat. No       | Description                 |
|---------------|-----------------------------|
| 250-10024-002 | Scorpion, SBS plate handler |

## MicroLute™ Manifold (Acryl Extraction System)



- Machined from crystal clear acrylic (top plate) and acetal polymer (plenum chamber)
- Suitable for most filter plates in ANSI/SLAS standard with long drip directors and for SPE plates, i. e. MicroLute™ (see price list "Porvair Consumables")
- Valve controlling knob (on-off) for precise control of vacuum
- Compatible with deep well collecting plates with square wells of 350 µl, 1 ml or 2 ml and plates with a height up to 44 mm
- Airtight sealing through O-ring, removable cover plate
- Medium resistance to alcohols and weak acids

| Cat. No | Description  | Cs. |
|---------|--|-----|
| 228008  | Standard MicroLute™ Manifold for 96-well collecting plates                                   | 1   |
| 228010  | Spacer Insert, PP, 1 ml, for use of round well PP plates (Cat. no. 219002), optional         | 1   |
| 228012  | Spacer Insert, HDPE, for use of 15 mm high plates (Cat no. 208003, 209003, 210003), optional | 1   |
| 219010  | Disposable reservoir, PVC  | 25  |

## Universal Robotic Manifold



- Designed to be easily assembled and disassembled by robotic manipulators
- Compatible with any filterplate type with short, medium or long drip directors (adapter available)
- Automated purification of SPE or DNA clean-up procedures
- Integrated valve for vacuum to provide complete control of vacuum pressure
- Fully compatible with most commercial robotic liquid handling systems
- Able to accommodate collection plates of 14 mm - 44 mm in height
- Chemically resistant

| Cat. No | Description  | Cs. |
|---------|--|-----|
| 228020  | Universal Robotic Manifold, compatible with 96-deep well collecting plates           | 1   |
| 228021  | Adapter 1 for plates with half skirt / medium drip director                          | 1   |
| 228022  | Adapter 2 for plates with short skirt / long drip director                           | 1   |
| 228010  | Spacer Insert, PP, 1 ml, for use of round well PP plates (cat. no. 219002), optional | 1   |
| 228012  | Spacer Insert, HDPE, for use of 15 mm high plates, optional                          | 1   |

**NEW!**

## UltraPPM LITE



- Positive pressure device
- Ideal for viscous and difficult to handle solutions
- Consistent pressure for reproducible results
- Simple to set up and use
- Only gas source required
- Precise control of gas and sample flow
- Applications are microplate-based filtrations such as SPE, SLE, PLR and protein precipitation.

| Cat. No   | Description                                | Cs. |
|-----------|--|-----|
| 250-10083 | UltraPPM LITE manifold for viscous samples | 1   |

## Looking for suitable filtration plates?

We offer a full range of 48-, 96- and 384-well microplates with a choice of glass fibre, PES, PVDF, polypropylene or polyethylene filter materials and well volumes ranging from 300 µl to 5 ml.



**Please ask for our separate product overview!**

# Ultraseal™ PRO, Ultraseal™ ePRO and Ultraseal™ XT-PRO Plate Sealers



**Ultraseal™ PRO**



**Ultraseal™ ePRO**



**Ultraseal™ XT-PRO**

- Automated sealers for microplates and tube racks
- Ideal for PCR, qPCR and other assays and storage-based applications
- Protect samples from evaporation and contamination
- Can be integrated into lab automation via RS232
- Suitable to use with shallow- and deep-well formats, standard and customized plates made of PS, PP, PC, CoC or CoP
- Ultraseal™ ePRO also can handle gas permeable films
- Ultraseal™ PRO and Ultraseal™ XT-PRO also can handle tube racks
- Accept formats between 7 mm and 45 mm in height
- Seal up to 6 plates per minute or 24 tubes simultaneously
- Operator friendly and easy to programme
- Cuts film to the desired length:  
Ultraseal™ PRO: 125 to 130 mm  
Ultraseal™ ePRO: 116 to 128 mm  
Ultraseal™ XT-PRO: 125 to 130 mm
- Ultraseal™ PRO is a pneumatic and electric device which requires a power and compressed air supply rated to min. 5.5 bar to max. 6.5 bar at 50 litres per min
- Optional gas purge for greater protection of samples available for Ultraseal™ PRO
- Ultraseal™ ePRO and XT-PRO operate all electric and do not need compressed air supply
- Optionally available with plate shuttle  
→Please contact us for further information.
- 110 / 220 VAC supply / multi-voltage

## Measurements:

Ultraseal™ PRO  
630 x 195 x 450 mm (l x w x h), approx. 12 kg

Ultraseal™ ePRO  
845 (shuttle out) x 234 x 530 mm (l x w x h),  
approx. 12 kg

Ultraseal™ XT-PRO  
625 x 175 x 440 mm (l x w x h), approx. 12 kg

| Cat. No.    | Description  |
|-------------|--|
| 500290      | Ultraseal™ PRO, automated sealer for microplates and tubes                 |
| 250-10039   | Ultraseal™ ePRO, all electric automated sealer for microplates and tubes   |
| 250-10011XT | Ultraseal™ XT-PRO, all electric automated sealer for microplates and tubes |

## Ultraseal™ coldPRO Sealer

**NEW!**



- Automates application of adhesive film to microplates and tube racks
- Works with a wide range of plates, tube racks and custom applications.
- Seals polystyrene, polypropylene, CoC and CoP plate formats with plate heights from 7 to 48 mm
- Operates with aluminium or plastic film rolls approx. 78 to 85 mm wide and 200 m long
- Cuts films to the desired lengths between 124 mm and 130 mm
- Easy to programme
- Operator friendly
- Can be operated both pneumatically and electrically
- Can be integrated with the “Scorpion” plate stacker (see page 5)
- (w x d x h): 370 x 700 x 453 mm, 15 kg
- 110 / 220 VAC supply / multi-voltage

| Cat. No   | Description   |
|-----------|---|
| 250-10081 | Ultraseal™ coldPRO, automatic microplate and tube rack sealer |

## Ultraseal™ LITE Sealer



- Intuitive, semi-automatic heat sealer for tight sealing of polypropylene, polyethylene and polystyrene microplates (24-, 48-, 96- and 384-well) as well as glass tubes
- Auto-adjusting sensors for different plate heights (9 mm to 48 mm)
- Temperature **range from ambient to 200 °C**
- Simple slide and seal operation, no gas input required
- Sealing time per plate: ≤ 10 seconds
- User-friendly with built-in touch screen control panel for temperature and sealing time
- Fully electric for reliable sealing and optimal programming
- Can be used with a wide range of sealing films and foils up to 200 °C (available from us – see page 9 to 13)
- (w x d x h): 180 x 285 x 280 mm

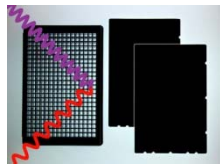
| Cat. No | Description   |
|---------|---|
| 500091  | Ultraseal™ LITE, Adaptable semi-automatic microplate sealer to seal tubes and 9 mm - 48 mm tall polypropylene, polyethylene and polystyrene microplates |
| 500110  | Spare plate weight to hold film down during sealing – for recessed plates only  |
| 500213  | Spare plate weight to hold film down during sealing – for standard & rimless plates   |



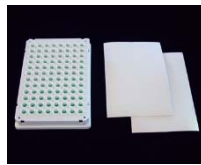
## Adhesive sealing foils



Growth of bacteria



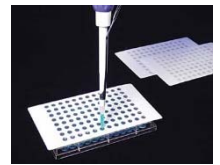
Fluorescence and photo-protection



Luminescence and microscopy



PCR, storage and incubation



High Throughput and automation



## Ultraseal™ ePRO-MINI

**NEW!**



- Intuitive, semi-automatic heat sealer for tight sealing of polypropylene, polystyrene, CoC and CoP microplates as well as glass tubes.
- Auto-adjusting for different plate heights.
- Fixed foil lengths of 125 mm and 78 mm wide using unique rigid framed cuts sheets.
- Tool free foil loading.
- Temperature range from ambient to 199 °C
- Simple slide and seal operation, no gas input required
- User-friendly with built-in touch screen control panel for temperature and sealing time
- Fully electric removes risk of cross contamination inherent in compressed air.
- Can be used with a wide range of sealing films and foils (available from us – see pages 9 to 13)
- (w x d x h): 338 x 314 x 31 mm

| Cat. No   | Description  |
|-----------|--|
| 250-10085 | Ultraseal™ ePRO-MINI, Automated heat-applied microplate and tube rack sealer |

## Thermal seals for Porvair Sealers

### Seals – Sheets



- The pre-sliced foils are marked to ensure the use with the right side up thus reducing the risk to damage the sensitive thermo head of the heat sealer
- Solvent resistant, including DMSO and TFA
- Dimensions: 78 mm x 125 mm
- Packages of 100 single sheets

| Cat. No. | Material | Thickness | Temperature range | peelable | pierceable | Colour | Cs. |
|----------|----------|-----------|-------------------|----------|------------|--------|-----|
| 5000090  | EVA/PE   | 75 µm     | -80 to +80 °C     | no       | yes        | black  | 100 |
| 500010   | EVA/PE   | 105 µm    | -80 to +180 °C    | yes      | no         | black  | 100 |

### Clear Seals - Rolls



- Peelable, pierceable and strong non-peelable formats available
- Optically clear films
- For imaging, fluorescence, colorimetric assays and PCR/qPCR
- Compatible with instruments that use a heat pressurized lid
- Pierceable formats allows for automation with autosampler needles, capillary and tip based liquid handling systems
- Stronger seals form a permanent seal and have higher Solvent resistance
- Autoclavability and difficulty to pierce makes it ideal for transportation of hazardous substances

| New Cat. No. | Old Cat. No. | Description  | peelable | pierceable | Cs.        |
|--------------|--------------|--|----------|------------|------------|
| SF01078LR    | 500293       | Clear Sealing Foil, 78 mm wide                       | yes      | no         | 500 m      |
| SF01078SR    | 500294       | Clear Sealing Foil, 78 mm wide, sterile              | yes      | no         | 500 m      |
| SF01115LR    |              | Clear Sealing Foil, 115 mm wide                      | yes      | no         | 350 m      |
| SF01115SR    |              | Clear Sealing Foil, 115 mm wide, sterile             | yes      | no         | 350 m      |
| SF01078LS    | 500293-M     | Clear Sealing Foil, 125 x 78 mm                      | yes      | no         | 100 sheets |
| SF01078SS    | 500294-M     | Clear Sealing Foil, 125 x 78 mm, sterile             | yes      | no         | 100 sheets |
| SF01078TR    | 500295SM     | Clear Sealing Foil, 78 mm wide                       | yes      | no         | 5 m sample |
| SF01115TR    |              | Clear Sealing Foil, 115 mm wide                      | yes      | no         | 5 m sample |
| SF01078TS    |              | Clear Sealing Foil, 125 mm x 78 mm                   | yes      | no         | 5 sheets   |
| SF03078LR    | 500296       | Clear Sealing Foil for Abi 3730, 78 mm wide          | no       | yes        | 610 m      |
| SF03078SR    | 500297       | Clear Sealing Foil for Abi 3730, 78 mm wide, sterile | no       | yes        | 610 m      |

(continued on page 10)

Clear Seals - Rolls (continued from page 9)

| New Cat. No. | Old Cat. No. | Description   | peelable | pierceable | Cs.        |
|--------------|--------------|---|----------|------------|------------|
| SF03115LR    |              | Clear Sealing Foil for Abi 3730, 115 mm wide          | no       | yes        | 500 m      |
| SF03115SR    |              | Clear Sealing Foil for Abi 3730, 115 mm wide, sterile | no       | yes        | 500 m      |
| SF03078LS    | 500296-M     | Clear Sealing Foil for Abi 3730, 125 x 78 mm          | no       | yes        | 100 sheets |
| SF03078SS    | 500297-M     | Clear Sealing Foil for Abi 3730, 125 x 78 mm, sterile | no       | yes        | 100 sheets |
| SF03078TR    | 500298SM     | Clear Sealing Foil for Abi 3730, 78 mm wide           | no       | yes        | 5 m sample |
| SF03115TR    |              | Clear Sealing Foil for Abi 3730, 115 mm wide          | no       | yes        | 5 m sample |
| SF03078TS    |              | Clear Sealing Foil for Abi 3730, 125 x 78 mm          | no       | yes        | 5 sheets   |
| SF02078LR    | 500299       | Clear Seal Weld, 78 mm wide                           | no       | no         | 610 m      |
| SF02078SR    | 500300       | Clear Seal Weld, 78 mm wide, sterile                  | no       | no         | 610 m      |
| SF02115LR    |              | Clear Seal Weld, 115 mm wide                          | no       | no         | 500 m      |
| SF02115SR    |              | Clear Seal Weld, 115 mm wide, sterile                 | no       | no         | 500 m      |
| SF02078LS    | 500299-M     | Clear Seal Weld, 125 mm x 78 mm                       | no       | no         | 100 sheets |
| SF02078SS    | 500300-M     | Clear Seal Weld, 125 x 78 mm, sterile                 | no       | no         | 100 sheets |
| SF02078TR    | 500301SM     | Clear Seal Weld, 78 mm wide                           | no       | no         | 5 m sample |
| SF02115TR    |              | Clear Seal Weld, 115 mm wide                          | no       | no         | 5 m sample |
| SF02078TS    |              | Clear Seal Weld, 125 x 78 mm                          | no       | no         | 5 sheets   |
| SF04078LR    | 500302       | Peel Seal Foil, 78 mm wide                            | yes      | no         | 610 m      |
| SF04078SR    | 500303       | Peel Seal Foil, 78 mm wide, sterile                   | yes      | no         | 610 m      |
| SF04115LR    |              | Peel Seal Foil, 115 mm wide                           | yes      | no         | 500 m      |
| SF04115SR    |              | Peel Seal Foil, 115 mm wide, sterile                  | yes      | no         | 500 m      |
| SF04078LS    | 500302-M     | Peel Seal Foil, 125 x 78 mm                           | yes      | no         | 100 sheets |
| SF04078SS    | 500303-M     | Peel Seal Foil, 125 x 78 mm, sterile                  | yes      | no         | 100 sheets |
| SF04078TR    | 500304SM     | Peel Seal Foil, 78 mm wide                            | yes      | no         | 5 m sample |
| SF04115TR    |              | Peel Seal Foil, 115 mm wide                           | yes      | no         | 5 m sample |
| SF04078TS    |              | Peel Seal Foil, 125 x 78 mm                           | yes      | no         | 5 sheets   |

### Dura Range Heat Seals - Rolls



- Ideal for high temperature applications and room temperature storage
- Peelable, pierceable and solvent resistant (incl. DMSO) formats available
- Autoclavable
- Also heat seal aluminium foils available

| New Cat. No. | Old Cat. No. | Description  | peelable | pierceable | Cs.        |
|--------------|--------------|--|----------|------------|------------|
| SF14078LR    | 500305       | Peel Seal Foil Super, 78 mm wide                     | yes      | no         | 610 m      |
| SF14078SR    | 500306       | Peel Seal Foil Super, 78 mm wide, sterile            | yes      | no         | 610 m      |
| SF14115LR    |              | Peel Seal Foil Super, 115 mm wide                    | yes      | no         | 500 m      |
| SF14115SR    |              | Peel Seal Foil Super, 115 mm wide, sterile           | yes      | no         | 500 m      |
| SF14078LS    | 500305-M     | Peel Seal Foil Super, 125 x 78 mm                    | yes      | no         | 100 sheets |
| SF14078SS    | 500306-M     | Peel Seal Foil Super, 125 x 78 mm, sterile           | yes      | no         | 100 sheets |
| SF14078TR    | 500307SM     | Peel Seal Foil Super, 78 mm wide                     | yes      | no         | 5 m sample |
| SF14115TR    |              | Peel Seal Foil Super, 115 mm wide                    | yes      | no         | 5 m sample |
| SF14078TS    |              | Peel Seal Foil Super, 125 x 78 mm                    | yes      | no         | 5 sheets   |
| SF05078LR    | 500308       | Peel Seal Foil, DMSO resistant, 78 mm wide           | yes      | no         | 500 m      |
| SF05078SR    | 500309       | Peel Seal Foil, DMSO resistant, 78 mm wide, sterile  | yes      | no         | 500 m      |
| SF05115LR    |              | Peel Seal Foil, DMSO resistant, 115 mm wide          | yes      | no         | 500 m      |
| SF05115SR    |              | Peel Seal Foil, DMSO resistant, 115 mm wide, sterile | yes      | no         | 500 m      |
| SF05078LS    | 500308-M     | Peel Seal Foil, DMSO resistant, 125 x 78 mm          | yes      | no         | 100 sheets |
| SF05078SS    | 500309-M     | Peel Seal Foil, DMSO resistant, 125 x 78 mm, sterile | yes      | no         | 100 sheets |

(continued on page 11)

| New Cat. No. | Old Cat. No. | Description  | peelable | pierceable | Cs.        |
|--------------|--------------|--|----------|------------|------------|
| SF05078TR    | 500310SM     | Peel Seal Foil, DMSO resistant, 78 mm wide           | yes      | no         | 5 m sample |
| SF05115TR    |              | Peel Seal Foil, DMSO resistant, 115 mm wide          | yes      | no         | 5 m sample |
| SF05078TS    |              | Peel Seal Foil, DMSO resistant, 125 x 78 mm          | yes      | no         | 5 sheets   |
| SF06078LR    | 500311       | Pierce Seal Foil, 78 mm wide                         | no       | yes        | 610 m      |
| SF06078SR    | 500312       | Pierce Seal Foil, 78 mm wide, sterile                | no       | yes        | 610 m      |
| SF06115LR    |              | Pierce Seal Foil, 115 mm wide                        | no       | yes        | 500 m      |
| SF06115SR    |              | Pierce Seal Foil, 115 mm wide, sterile               | no       | yes        | 500 m      |
| SF06078LS    | 500311-M     | Pierce Seal Foil, 125 x 78 mm                        | no       | yes        | 100 sheets |
| SF06078SS    | 500312-M     | Pierce Seal Foil, 125 x 78 mm, sterile               | no       | yes        | 100 sheets |
| SF06078TR    | 500313SM     | Pierce Seal Foil, 78 mm wide                         | no       | yes        | 5 m sample |
| SF06115TR    |              | Pierce Seal Foil, 115 mm wide                        | no       | yes        | 5 m sample |
| SF06078TS    |              | Pierce Seal Foil, 125 mm x 78 mm                     | no       | yes        | 5 sheets   |
| SF07078LR    | 500317       | Pierce Seal Foil for PS plates, 78 mm wide           | yes      | yes        | 610 m      |
| SF07078SR    | 500318       | Pierce Seal Foil for PS plates, 78 mm wide, sterile  | yes      | yes        | 610 m      |
| SF07115LR    |              | Pierce Seal Foil for PS plates, 115 mm wide          | yes      | yes        | 500 m      |
| SF07115SR    |              | Pierce Seal Foil for PS plates, 115 mm wide, sterile | yes      | yes        | 500 m      |
| SF07078LS    | 500317-M     | Pierce Seal Foil for PS plates, 125 x 78 mm          | yes      | yes        | 100 sheets |
| SF07078SS    | 500318-M     | Pierce Seal Foil for PS plates, 125 x 78 mm, sterile | yes      | yes        | 100 sheets |
| SF07078TR    | 500319SM     | Pierce Seal Foil for PS plates, 78 mm wide           | yes      | yes        | 5 m sample |
| SF07115TR    |              | Pierce Seal Foil for PS plates, 115 mm wide          | yes      | yes        | 5 m sample |
| SF07078TS    |              | Pierce Seal Foil for PS plates, 125 x 78 mm          | yes      | yes        | 5 sheets   |

### HD Heat Seal - Rolls



- Ideal for long-term storage and transportation
- High solvent resistance
- Wide seal integrity range from temperatures of -200 °C to 110 °C
- Impenetrable by pipette tips and liquid handling systems

| New Cat. No. | Old Cat. No. | Description                           | peelable | pierceable | Cs.        |
|--------------|--------------|---------------------------------------|----------|------------|------------|
| SF08078LR    | 500320       | Therm Seal Foil, 78 mm wide           | yes      | no         | 500 m      |
| SF08078SR    | 500321       | Therm Seal Foil, 78 mm wide, sterile  | yes      | no         | 500 m      |
| SF8-115LR    |              | Therm Seal Foil, 115 mm wide          | yes      | no         | 350 m      |
| SF8-115SR    |              | Therm Seal Foil, 115 mm wide, sterile | yes      | no         | 350 m      |
| SF8-078LS    | 500320-M     | Therm Seal Foil, 125 x 78 mm          | yes      | no         | 100 sheets |
| SF8-078SS    | 500321-M     | Therm Seal Foil, 125 x 78 mm, sterile | yes      | no         | 100 sheets |
| SF8-078TR    | 500322SM     | Therm Seal Foil, 78 mm wide           | yes      | no         | 5 m sample |
| SF08115TR    |              | Therm Seal Foil, 115 mm wide          | yes      | no         | 5 m sample |
| SF08078TS    |              | Therm Seal Foil, 125 x 78 mm          | yes      | no         | 5 sheets   |

### Gas Permeable - Rolls



- "Bio Pierce and Peel" made from non-woven gas-permeable material which limits evaporation
- Ideal for cell culture
- Porous properties allow gas exchange to occur whilst providing an inert surface and no adhesive to interfere with the well contents
- "Gas Pierce and Peel" composed of paper with a grid lacquer coating to enhance porous and gas-permeable properties
- Peelable, pierceable and autoclavable formats available

| New Cat. No. | Old Cat. No. | Description   | peelable | pierceable | Cs.   |
|--------------|--------------|---|----------|------------|-------|
| SF10078LR    | 500323       | Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide          | yes      | yes        | 200 m |
| SF10078SR    | 500324       | Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide, sterile | yes      | yes        | 200 m |
| SF10115LR    |              | Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide         | yes      | yes        | 200 m |



| <b>New Cat. No.</b> | <b>Old Cat. No.</b> | <b>Description</b>  | <b>peelable</b> | <b>pierceable</b> | <b>Cs.</b> |
|---------------------|---------------------|---|-----------------|-------------------|------------|
| SF10115SR           |                     | Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide, sterile                                  | yes             | yes               | 200 m      |
| SF10078LS           | 500323-M            | Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm   | yes             | yes               | 100 sheets |
| SF10078SS           | 500324-M            | Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm, sterile                                  | yes             | yes               | 100 sheets |
| SF10078TR           | 500325SM            | Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide  | yes             | yes               | 5 m sample |
| SF10115TR           |                     | Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide   | yes             | yes               | 5 m sample |
| SF10078TS           |                     | Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm   | yes             | yes               | 5 sheets   |
| SF13078LR           | 500326              | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 78 mm wide                     | yes             | yes               | 610 m      |
| SF13078SR           | 500327              | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 78 mm wide, sterile            | yes             | yes               | 610 m      |
| SF13115LR           |                     | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 115 mm wide                    | yes             | yes               | 500 m      |
| SF13115SR           |                     | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 115 mm wide, sterile           | yes             | yes               | 500 m      |
| SF13078LS           | 500326-M            | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 125 x 78 mm                    | yes             | yes               | 100 sheets |
| SF13078SS           | 500327-M            | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 125 x 78 mm, sterile           | yes             | yes               | 100 sheets |
| SF13078TR           | 500328SM            | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 78 mm wide                     | yes             | yes               | 5 m sample |
| SF13115TR           |                     | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 115 mm wide                    | yes             | yes               | 5 m sample |
| SF13078TS           |                     | " <u>Gas</u> Pierce and Peel"<br>Gas-permeable grid paper for insect studies and seed storage, 125 x 78 mm                    | yes             | yes               | 5 sheets   |
| SF11078LR           | 500329              | " <u>Bio</u> Pierce and Peel"<br>Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide           | yes             | no                | 610 m      |
| SF11078SR           | 500330              | " <u>Bio</u> Pierce and Peel"<br>Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide, sterile  | yes             | no                | 610 m      |
| SF11115LR           |                     | " <u>Bio</u> Pierce and Peel"<br>Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide          | yes             | no                | 500 m      |
| SF11115SR           |                     | " <u>Bio</u> Pierce and Peel"<br>Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide, sterile | yes             | no                | 500 m      |
| SF11078LS           | 500329-M            | " <u>Bio</u> Pierce and Peel"<br>Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm          | yes             | no                | 100 sheets |
| SF11078SS           | 500330-M            | " <u>Bio</u> Pierce and Peel"<br>Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm, sterile | yes             | no                | 100 sheets |

(continued on page 13)

| New Cat. No. | Old Cat. No. | Description   | peelable | pierceable | Cs.        |
|--------------|--------------|---|----------|------------|------------|
| SF11078TR    | 500331SM     | "Bio Pierce and Peel"<br>Gas-permeable non-woven film<br>for cell culture, insect and seed storage, 78 mm wide  | yes      | no         | 5 m sample |
| SF11115TR    |              | "Bio Pierce and Peel"<br>Gas-permeable non-woven film<br>for cell culture, insect and seed storage, 115 mm wide | yes      | no         | 5 m sample |
| SF11078TS    |              | "Bio Pierce and Peel"<br>Gas-permeable non-woven film<br>for cell culture, insect and seed storage, 125 x 78 mm | yes      | no         | 5 sheets   |

**NEW!** **Advanced Heat Seal**



- Compatible with single sheet heat seal applicators
- Certified free of DNase-, RNase and Human DNA contamination (PCR certified)
- Provides excellent protection from evaporation
- Peelable foil does not tear during removal
- Compatible with PP and dual component (PC/PP) PCR plates
- Backing liner prevents sealing surface contamination (remove prior to sealing)
- Dimensions: 131.34 mm x 78.58 mm

| Cat. No.   | Application       | Temperature range | sterile | pierceable | Material      | Cs. |
|------------|-------------------|-------------------|---------|------------|---------------|-----|
| HS-FPL-100 | Heat Sealing, PCR | +4 °C to +94 °C   | no      | yes        | Foil Laminate | 100 |

**Ultraseal™ CAP-LITE**



- Produces an accurate and tight seal on shallow and deep well PP plates
- Needs minimal pressure for capping, reduces fatigue and Repetitive Strain Injury
- Special across plate pressure system ensures perfect seal time after time
- Also works with 2D barcoded glass tube racks and their closure mats
- Powder coated to resist chemical spillage
- Anti-slip base and fixing holes for securing to bench
- EVA or silicone mats are reusable with care (see page 14)

| Cat. No. | Description  |
|----------|--|
| 229078   | <b>Ultraseal™ CAP-LITE</b> , applicator for storage and assay plates as well as for tube racks |

**NEW!** **Ultraseal™ CAP-PRO**

- Designed to apply friction sealing mats or septum sealing caps to SBS-format tube racks.
- Consistent even pressure is applied to the mat to ensure each tube or well is tightly sealed.
- More reproducible, quicker and less likely to cause a strain injury than trying to do this manually.
- Small compact design allows it to place the device on all laboratory benches.
- Just requires power supply of 220 V.
- Three pressure settings:
  - Low – 100 kg max force
  - Medium – 180 kg max force
  - High – 250 kg max force
- Compatible with most commercially available septum cap mats, 2D-coded and uncoded tubes and SBS-format racks (24-, 48- and 96-tube plates).

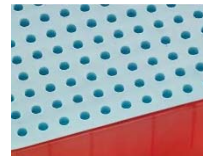



| Cat. No. | Description   |
|----------|---|
| 500246   | <b>Ultraseal™ CAP-PRO</b> , applicator for storage and assay plates as well as for tube racks |

## Sealing Mats

porvair  
sciences

J.G.  
Finneran  
Associates, Inc.



| Cat. No.     | Description  | pierceable | Material | Cs. |
|--------------|--|------------|----------|-----|
| 360014       | Mat for 24-well (Porvair: 360013)  | yes        | San      | 100 |
| 360006       | Mat for 48-well (Porvair: 360002, 360004);<br>DNase-/RNase-free                                | yes        | San      | 100 |
| 360098       | Mat for 48-well solid plate with 5 ml and 7.5 ml   | no         | Si       | 100 |
| 219004       | Mat for 96-well, square (Porvair: 219009, 219030, 219031),<br>DNase-/RNase-free                | yes        | EVA      | 50  |
| 219019       | Mat for 96-well, round (Porvair: 219025, 219026, 219027),<br>DNase-/RNase-free; <b>sterile</b> | no         | EVA      | 50  |
| 360010       | Mat for 96-well, square (Porvair: 219006, 219008, 219009)                                      | yes        | San      | 100 |
| 219033       | Mat for 96-well, square (Porvair: 219030, 219031)  | no         | PP       | 50  |
| 997005SW-96  | Moulded green mat for 96-well, square  | yes        | Si       | 5   |
| 997075SW-96  | Precut moulded green mat for 96-well, square   | yes        | SI       | 5   |
| 996050SW-96  | Moulded grey PTFE-lined mat for 96-well, square  | yes        | PTFE/Si  | 5   |
| 996075SW-96  | Precut moulded grey PTFE-lined mat for 96-well, square   | yes        | PTFE/Si  | 5   |
| 976050SW-96  | Clear PTFE spray coated mat for 96-well, square  | yes        | PTFE/Si  | 5   |
| 976075SW-96  | Pre-slit clear PTFE spray coated mat for 96-well, square                                       | yes        | PTFE/Si  | 5   |
| 976250SW-96  | Ultra-low-bleed clear PTFE spray coated mat for<br>96-well, square                             | yes        | PTFE/Si  | 5   |
| 976275SW-96  | Pre-slit ultra-low-bleed clear PTFE spray coated mat for<br>96-well, square                    | yes        | PTFE/Si  | 5   |
| 219036       | Mat for 96-well, round (Porvair: 219002, 500284);<br>DNase-/RNase-free                         | no         | EVA      | 50  |
| 219042       | Mat for 96-well, round (Porvair: 219012);<br>DNase-/RNase-free; <b>sterile</b>                 | no         | EVA      | 50  |
| 500179       | Mat for 96-well, round with double O-ring<br>(Porvair: 219020, 219021)                         | yes        | Si       | 50  |
| 219044       | Mat for 96-well, round (Porvair: 219002)   | yes        | EVA      | 50  |
| 997005MR-96  | Moulded green mat for 96-well, round   | yes        | Si       | 5   |
| 997075MR-96  | Precut moulded green mat for 96-well, round  | yes        | SI       | 5   |
| 996050MR-96  | Moulded grey mat for 96-well, round  | yes        | PTFE/Si  | 5   |
| 996075MR-96  | Precut moulded grey mat for 96-well, round   | yes        | PTFE/Si  | 5   |
| 9760507MR-96 | Clear PTFE spray coated mat for 96-well, round<br>(plug Ø 7 mm)                                | yes        | PTFE/Si  | 5   |
| 9760757MR-96 | Pre-slit clear PTFE spray coated mat for 96-well, round<br>(plug Ø 7 mm)                       | yes        | PTFE/Si  | 5   |
| 9762507MR-96 | Ultra-low-bleed clear PTFE spray coated mat for 96-well, round<br>(plug Ø 7 mm)                | yes        | PTFE/Si  | 5   |
| 9762757MR-96 | Pre-slit ultra-low-bleed clear PTFE spray coated mat for<br>96-well, round (plug Ø 7 mm)       | yes        | PTFE/Si  | 5   |
| 9760508MR-96 | Clear PTFE spray coated mat for 96-well, round<br>(plug Ø 8 mm)                                | yes        | PTFE/Si  | 5   |
| 9760758MR-96 | Pre-slit clear PTFE spray coated mat for 96-well, round<br>(plug Ø 8 mm)                       | yes        | PTFE/Si  | 5   |
| 9762508MR-96 | Ultra-low-bleed clear PTFE spray coated mat for 96-well, round<br>(plug Ø 8 mm)                | yes        | PTFE/Si  | 5   |
| 9762758MR-96 | Pre-slit ultra-low-bleed clear PTFE spray coated mat for<br>96-well, round (plug Ø 8 mm)       | yes        | PTFE/Si  | 5   |
| 9764508MR-96 | Clear PTFE spray coated mat for 96-well, round<br>(plug Ø 8 mm, short)                         | yes        | PTFE/Si  | 5   |
| 9764758MR-96 | Pre-slit clear PTFE spray coated mat for 96-well, round<br>(plug Ø 8 mm, short)                | yes        | PTFE/Si  | 5   |
| 976050SW-384 | Clear PTFE spray coated mat for 384-well, square   | yes        | PTFE/Si  | 5   |
| 976075SW-384 | Pre-slit clear PTFE spray coated mat for 384-well, square                                      | yes        | PTFE/Si  | 5   |

**NEW!**

## eGecko<sup>2</sup>

**porvair**  
SCIENCES



- Applies customized barcodes to plates in SBS-format and petri dishes reliably.
- Printer is integrated in the system.
- Electrical supply only (110 - 220 VAC)
- Easy exchange of heads to enable a quick change to apply labels on flat or curved surfaces.
- Integrated software "Bartender" directly drives data to the printer.
- PC is integrated in the system and can connect to a LIMs network to allow data transfer and validation of applicated barcodes.
- Individually programmable macros are stored in the PC.
- (w x d x h): 489 x 395 x 626 mm

| Cat. No.  | Description  |
|-----------|--|
| 250-10066 | eGecko <sup>2</sup> , Automated Barcode Applicator |

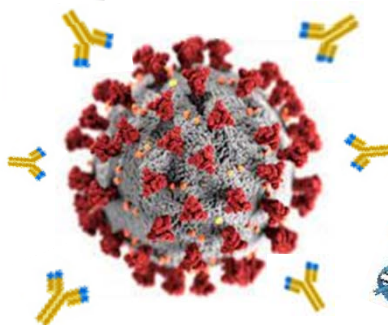
### Abbreviations:

|       |                         |
|-------|-------------------------|
| Al:   | Aluminium               |
| CoC:  | Cycloolefin-Copolymere  |
| CoP:  | Cycloolefin-Polymer     |
| DMF:  | Dimethylformamide       |
| DMSO: | Dimethyl sulfoxide      |
| EVA:  | Ethylene-vinyl Acetate  |
| PC:   | Polycarbonate           |
| PE:   | Polyethylene            |
| PP:   | Polypropylene           |
| PS:   | Polystyrene             |
| PTFE: | Polytetrafluorethylene  |
| PVDF: | Polyvinylidene fluoride |
| Si:   | Silicone                |
| SPE:  | Solid-Phase-Extraction  |
| TFA:  | Trifluoric acetic acid  |

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ELEVATING SCIENCE®

**Innovative**  
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**GenTegra**

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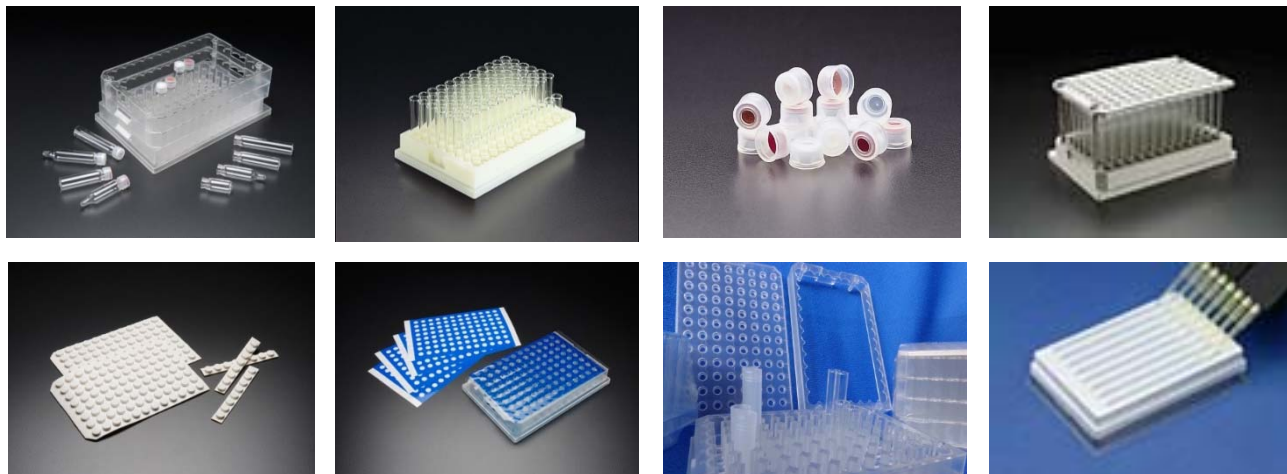
→ Complete overview and detailed product information upon request.

Also in our programme:

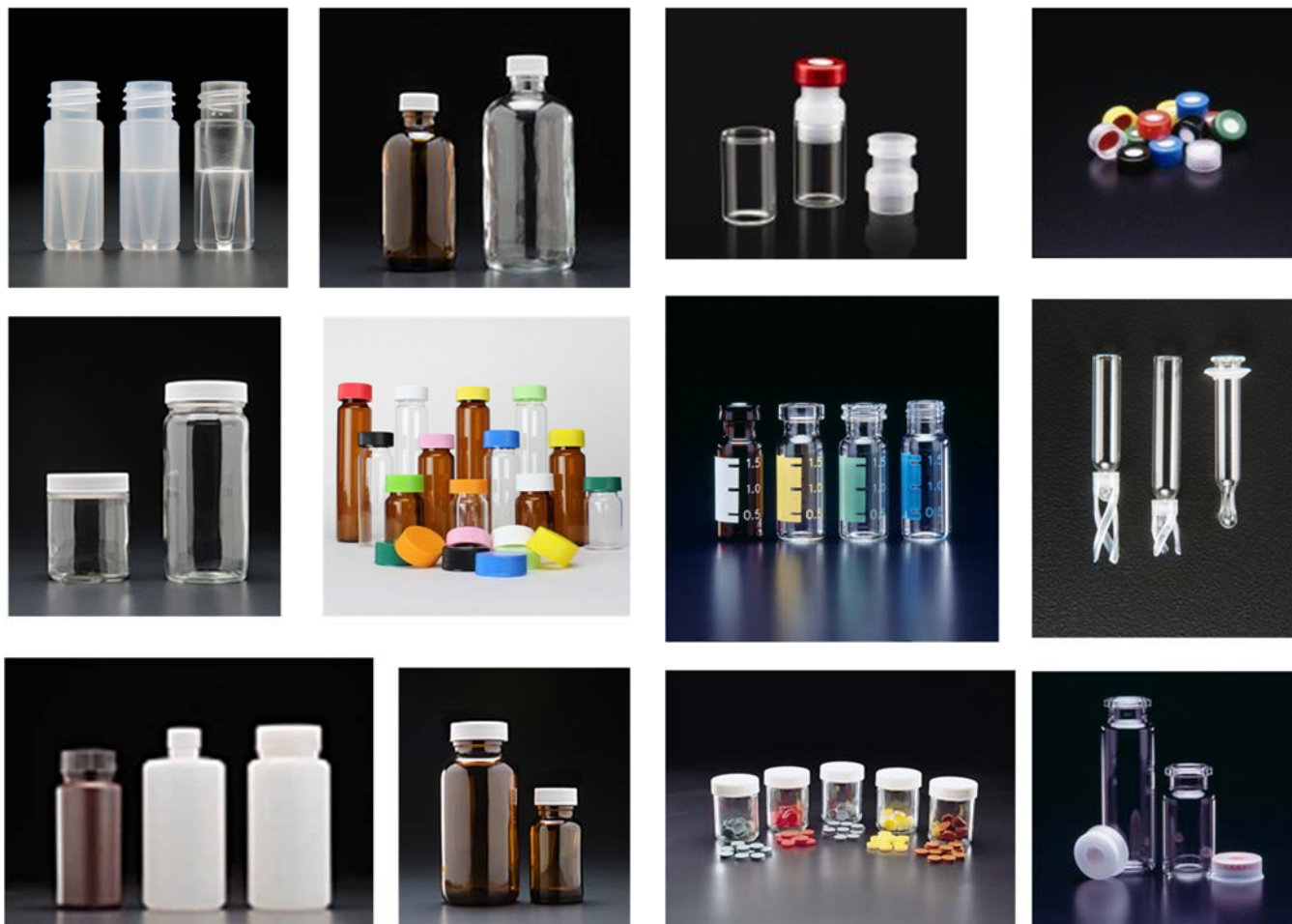


## Glass and plastic products for Biotechnology, Environmental Analytic and Chromatography

- Aluminium 96-well Micro Plate System
- 96-well Multi-Tier™ System
- Topas Complement System
- Sealing Mats
- Vials from clear and amber glass or plastic
- Caps, Lids and Stoppers
- Septa
- Micro Inserts, and much more



### Biotechnology



### Environmental Analytic

### Chromatography