

DOMINIQUE DUTSCHER SAS

# Tissue Culture and Laboratory Technology

## Sales Brochure 2026 – 2027

SWISS DESIGN
AND QUALITY

home of tissue culture TPP®

## TPP Techno Plastic Products AG

TPP is known as manufacturer for disposable plastic products for tissue culture of highest quality. That is typical TPP: serrated gripping ring of the tissue culture dishes, square form for vacuum filtration, pivotal scraper head, collapsible rack for tubes and the famous TubeSpin® bioreactor. We are proud of it!



Dear TPP customers
We say thank you!

Not only must the product be of best quality, but also our services to support you in your daily work. For both, product and service, a worldwide network of local TPP dealers are committed, to fulfill your demands and requests to the full extent.

The TPP target is 100 % customer satisfaction.

Again, thank you for your trust and confidence in TPP for more than 50 years.

**TPP Techno Plastic Products AG**

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# 3-B Product "Clean Room"



The triple bagged packaging (3-B) solution from TPP meets the stringent clean room requirements.

With a single packaging style, contamination adhering to the outside of the bag can be carried into clean room areas. The 3-B packaging system prevents this contamination reaching the highly sensitive production areas thus significantly increasing safety. 3-B products have a SAL $10^{-6}$.

Features of **3-B products:**

- The safety-open-style peel-open bags are specially sized, that during handling of one bag the next inner bag is not accidentally broken, rendering it contaminated
- Each product is triple bagged in three peel-open bags
- SAL-value: $10^{-6}$
- Safety-open-style:
  **3** - outer, **2** - middle, **1** - inner bag
- Subsequent numbering assists to identify status of packaging
- Bag #**1** (seldom 2) is labeled with the product data:
  - product number
  - product description
  - lot number
  - EXP

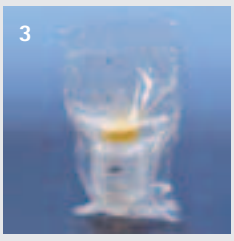
Order code: TPP standard product number plus prefix 3.

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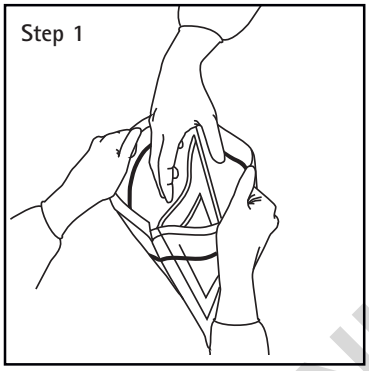


1. Cryo tubes in 3-B
2. Tissue culture dish in 3-B
3. Bioreactor 600 in 3-B
4. Syringe Filter in 3-B



## Safety in clean rooms with TPP

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**Step 1**
Open bag 3

**Step 2**
Pull out sterile bag 2
Transfer bag 2 to sluice

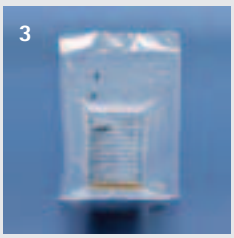
**Step 3**
Open bag 2 in sluice, carefully pull out sterile bag 1
Sterile transfer of bag 1 to growing area

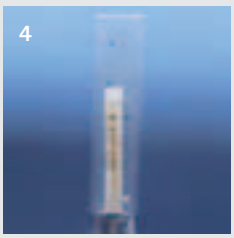
**Step 4**
Open bag 1 in aseptic room / under the bench
Use product










1. Filtermax vacuum filtration in 3-B
2. Centrifuge tube in 3-B
3. Tissue culture test plate in 3-B
4. Cell scraper in 3-B

### 3-B TubeSpin® Bioreactor

| Type | Product-No. | Version | Centrifugal Acceleration | Volume | Dimensions Ø x l | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | | max x g | ml | mm | | pcs | pcs |
|  | 387050 | conical | 15'500 | 50 | 30.0 x 115 | PP | 1 | 50 |
|  | 387600 | conical | 3'500 | 600 | 100 x 183 | PP | 1 | 10 |

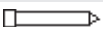
### 3-B Cryo Tube

| Type | Product-No. | Volume max. | Volume recom. | Dimensions Ø x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | ml | ml | mm | | pcs | pcs |
|  | 389012 | 0.9 | 0.7 | 12 x 37 | PP | 25 | 500 |
|  | 389020 | 1.5 | 1.3 | 12 x 48 | PP | 25 | 500 |
|  | 389050 | 4.5 | 4.3 | 12 x 90 | PP | 25 | 300 |

### 3-B Tissue Culture Flask and additional Caps

| Type | Product-No. | Growth Area | Version | Volume max. | Volume recom. | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | | ml | ml | mm | | pcs | pcs |
|  | 390025 | 25 | VENT | 15 | 3 - 8 | 92 x 51 x 29 | PS | 1 | 28 |
|  | 390026 | 25 | filter | 15 | 3 - 8 | 92 x 51 x 29 | PS | 1 | 28 |
|  | 390028 | 25 | peel-off | 15 | 3 - 8 | 92 x 51 x 29 | PS | 1 | 28 |
|  | 390075 | 75 | VENT | 65 | 8 -2 2 | 155 x 87 x 40 | PS | 1 | 20 |
|  | 390076 | 75 | filter | 65 | 8 - 22 | 155 x 87 x 40 | PS | 1 | 20 |
|  | 390150 | 150 | VENT | 165 | 15 - 45 | 210 x 122 x 50 | PS | 1 | 20 |
|  | 390151 | 150 | filter | 165 | 15 - 45 | 210 x 122 x 50 | PS | 1 | 20 |
|  | 390153 | 150 | peel-off | 100 | 15 - 45 | 210 x 122 x 50 | PS | 1 | 20 |
|  | 390301 | 300 | filter | 410 | 30 - 85 | 275 x 170 x 50 | PS | 1 | 12 |
|  | 390552 | 150 | lid | 100 | 15 - 45 | 210 x 122 x 50 | PS | 1 | 20 |
|  | 390652 | 115 | lid, barrier | 100 | 15 - 33 | 210 x 122 x 50 | PS | 1 | 20 |
|  | 390850 | | VENT | 150 / 300 $cm^2$ | | 39 x 24 | PE | 1 | 30 |
|  | 390856 | | filter | 150 / 300 $cm^2$ | | 39 x 24 | PE | 1 | 30 |

### 3-B Centrifuge Tube

| Type | Product-No. | Volume | Version | Dimensions Ø x h | Centrifugal Acceleration | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | ml | | mm | max x g | | pcs | pcs |
|  | 391015 | 15 | conical | 17.1 x 121 | 15'500 | PP | 40 | 800 |
|  | 391016 | 13 | round, short | 17.1 x 104 | 15'500 | PP | 40 | 800 |
|  | 391050 | 50 | conical | 30.0 x 115 | 15'500 | PP | 20 | 360 |
|  | 391051 | 50 | conical, self-standing | 30.0 x 115 | 15'500 | PP | 20 | 320 |
|  | 391115 | 15 | conical | 17.1 x 121 | 1'700 | PS | 40 | 800 |

### 3-B Tissue Culture Tube

| Type | Product-No. | Growth Area | Version | Volume max. | Centrifugal Acceleration | Dimensions Ø x l | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | | ml | max x g | mm | | pcs | pcs |
|  | 391106 | 20 | VENT | 5 | 1'200 | 16 x 121 | PS | 1 | 100 |
|  | 391243 | 10 | filter | 10 | 1'200 | 30 x 105 | PS | 1 | 50 |

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### 3-B Tissue Culture Test Plate

| Type | Product-No. | Number Wells | Growth Area | Version | Volume | Inside-Ø | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|---|
| | | pcs | $cm^2$ | | ml | mm | mm | | pcs | pcs |
| | 392006 | 6 | 9.026 | F | 15.52 | 33.9 | 128 x 86 x 22 | PS | 1 | 36 |
| | 392012 | 12 | 3.464 | F | 5.87 | 21.0 | 128 x 86 x 22 | PS | 1 | 36 |
| | 392024 | 24 | 1.863 | F | 3.19 | 15.4 | 128 x 86 x 22 | PS | 1 | 36 |
| | 392048 | 48 | 0.882 | F | 1.51 | 10.6 | 128 x 86 x 22 | PS | 1 | 36 |
| | 392096 | 96 | 0.342 | F | 0.38 | 6.4 | 128 x 86 x 17 | PS | 1 | 50 |
| | 392097 | 96 | 0.965 | U | 0.32 | 6.4 | 128 x 86 x 17 | PS | 1 | 50 |

### 3-B Tissue Culture Dish

| Type | Product-No. | Growth Area | Inside-Ø | Dimensions Ø x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | $cm^2$ | mm | mm | | pcs | pcs |
| | 393040 | 9.2 | 34 | 40 x 11 | PS | 1 | 60 |
| | 393060 | 22.1 | 53 | 60 x 16 | PS | 1 | 48 |
| | 393100 | 60.0 | 87 | 96 x 21 | PS | 1 | 54 |
| | 393150 | 147.0 | 137 | 146 x 21 | PS | 1 | 28 |

### 3-B Serological Pipette with Reservoir

| Type | Product-No. | Volume | Reservoir | Color | Dimensions Ø x h | Volume Scale | Material | Packaging | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | ml | | mm | ml | | | pcs |
| | 394525 | 25 | 15 | red | 15 / 20.5 x 345 | 2/10 | PS | plastic / plastic | 36 |
| | 394550 | 50 | 20 | purple | 20 / 24.0 x 345 | 1/10 | PS | plastic / plastic | 36 |

### 3-B Vacuum Filtration "rapid"-Filtermax

| Type | Product-No. | Filtration Area | Volume | Pore Size | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | ml | µm | mm | | pcs | pcs |
| | 399157 | - | 150 | - | 93 x 93 x 63 | PS | 1 | 12 |
| | 399257 | - | 250 | - | 93 x 93 x 87 | PS | 1 | 12 |
| | 399500 | 49 | 500 | 0.22 | 93 x 93 x 214 | PS / PES | 1 | 8 |
| | 399507 | - | 500 | - | 93 x 93 x 121 | PS | 1 | 12 |
| | 399950 | 69 | 1000 | 0.22 | 111 x 111 x 285 | PS / PES | 1 | 6 |
| | 399957 | - | 1000 | - | 111 x 111 x 160 | PS | 1 | 6 |

### 3-B Cell Scraper

| Type | Product-No. | Length | Version | Blade Width | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | mm | | mm | | pcs | pcs |
| | 399002 | 240 | scraper "S", rotating | 13 | PE | 1 | 40 |
| | 399003 | 300 | scraper "M", rotating | 20 | PE | 1 | 40 |

### 3-B Syringe Filter

| Type | Product-No. | Filtration Area | Pore Size | Dimensions Ø x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | $cm^2$ | µm | mm | | pcs | pcs |
| | 399722 | 6 | 0.22 | 33 x 27 | PES | 1 | 100 |
| | 399745 | 6 | 0.45 | 33 x 27 | PES | 1 | 100 |

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# Tissue Culture Flask 25 – 300 cm²



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Features of the **Tissue Culture Flask**:

- Surface activated growth area for optimal adhesion and best proliferation of adherent cells
- The angled neck of the flask reduces the risk of contact of medium with the inside of the screw cap
- Stacking ring enables stable, non-slip stacking of several flasks
- Highly visible bilateral marking areas
- White volume graduations on both sides for optic control of the filling volume
- Crystal clear transparency

The opto-mechanically activated growth area offers optimal cell adhesion and results in best proliferation.

Flasks are available with VENT or filter screw caps. The filter screw caps offer constant sterile gas exchange through the hydrophobic non wettable PTFE membrane with pore size 0.22 µm.

| Type | Product-No. | Growth Area cm² | Version | Volume max. ml | Volume recom. ml | Dimensions l x w x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|---|---|
| | 90025 | 25 | VENT | 15 | 3 - 8 | 92 x 51 x 29 | PS | 10 | 360 |
| | 90026 | 25 | filter | 15 | 3 - 8 | 92 x 51 x 29 | PS | 10 | 360 |
| | 90075 | 75 | VENT | 65 | 8 - 22 | 155 x 87 x 40 | PS | 5 | 100 |
| | 90076 | 75 | filter | 65 | 8 - 22 | 155 x 87 x 40 | PS | 5 | 100 |
| | 90150 | 150 | VENT | 165 | 15 - 45 | 210 x 122 x 50 | PS | 3 | 36 |
| | 90151 | 150 | filter | 165 | 15 - 45 | 210 x 122 x 50 | PS | 3 | 36 |
| | 90300 | 300 | VENT | 410 | 30 - 85 | 275 x 170 x 50 | PS | 3 | 18 |
| | 90301 | 300 | filter | 410 | 30 - 85 | 275 x 170 x 50 | PS | 3 | 18 |

# VENT or Filter Screw Cap

## The TPP Click



VENT position at 12 o'clock = gas exchange

- Click:
  VENT screw cap is in position for gas exchange.
- Visual control gas exchange:
  rectangle is at 12 o'clock.



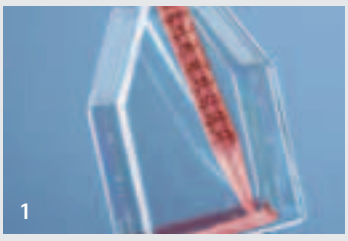
VENT position at 3 o'clock = gas tight

- Turn 90° degree clockwise over the click:
  VENT screw cap closes flask gas tight.
- Visual control of the gas tight position:
  rectangle is at 3 o'clock.

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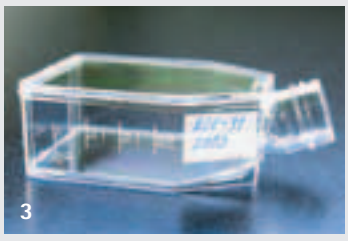
### VENT or Filter Screw Cap for Tissue Culture Flasks

| Type | Product-No. | Version | Dimensions Ø x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|
| | 90825 | VENT for T-25 | 24 x 16 | PE | 10 | 40 |
| | 90826 | filter for T-25 | 24 x 16 | PE | 10 | 40 |
| | 90850 | VENT for T-150 / 300 | 39 x 24 | PE | 10 | 40 |
| | 90856 | filter for T-150 / 300 | 39 x 24 | PE | 10 | 40 |
| | 90875 | VENT for T-75 | 33 x 21 | PE | 10 | 40 |
| | 90876 | filter for T-75 | 33 x 21 | PE | 10 | 40 |










1. 100 % cell harvesting
2. Bilateral marking area and volume scale
3. Angled neck

# Tissue Culture Flask with Re-Closable Lid 115 – 150 cm²





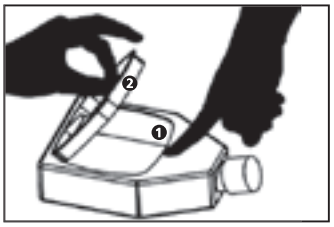
Free access to the cell chamber

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Features of the **Tissue Culture Flask with Re-Closable Lid**:

- A multi-use re-closable liquid-tight lid
- Complete access to flask chamber from above
- Safety edge enables stable, non-slip stacking of several flasks also in combination with the standard TPP tissue culture flasks
- Optionally available with barrier which reduces the growth area to 115 cm²

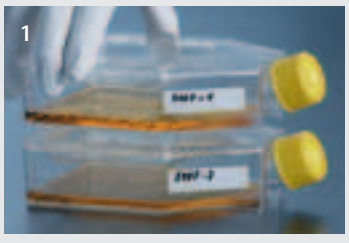
Flask is available with filter screw cap only. If a VENT screw cap is used, a possible pressure buildup of more than 0.03 bar inside the flask could press open the lid.




**Opening and closing mechanism**

1 Press here
2 Lift lid

| Type | Product-No. | Growth Area cm² | Version | Lid Opening l x w mm | Volume max. ml | Volume recom. ml | Dimensions l x w x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|---|---|---|
| | 90552 | 150 | lid | 105 x 105 | 100 | 15 - 45 | 210 x 122 x 50 | PS | 3 | 18 |
| | 90652 | 115 | lid, barrier | 105 x 105 | 100 | 15 - 33 | 210 x 122 x 50 | PS | 3 | 18 |







1. Secure stacking of multiple flasks
2. Opening and re-closing mechanism

# Tissue Culture Flask 25 – 300 cm² with Peel-Off Foil



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Features of the **Tissue Culture Flask with Peel-Off Foil:**

- Available in all sizes: 25 - 300 cm²
- Large pinched flap for a firm grip
- Foil is peeled off before access to the cells
- Re-closure of the flask is not possible
- Stacking ring enables stable, non-slip stacking of several flasks
- Optionally available with barrier

Flask is available with filter screw cap only. If a VENT screw cap is used, a possible pressure build-up of more than 0.03 bar inside the flask could press to open the foil.

| Type | Product-No. | Growth Area cm² | Version | Lid Opening l x w mm | Volume max. ml | Volume recom. ml | Dimensions l x w x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|---|---|---|
| | 90028 | 25 | peel-off | 38 x 45 | 15 | 3 - 8 | 92 x 51 x 31 | PS | 5 | 70 |
| | 90078 | 75 | peel-off | 87 x 92 | 65 | 8 - 22 | 155 x 87 x 45 | PS | 2 | 32 |
| | 90153 | 150 | peel-off | 100 x 128 | 100 | 15 - 45 | 210 x 122 x 50 | PS | 3 | 18 |
| | 90303 | 300 | peel-off | 140 x 185 | 200 | 30 - 85 | 275 x 170 x 55 | PS | 2 | 8 |
| | 90653 | 115 | peel-off, barrier | 100 x 128 | 100 | 15 - 33 | 210 x 122 x 50 | PS | 3 | 18 |



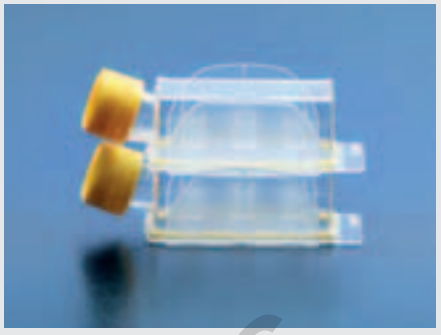




1. Large flap for easy peel-off
2. Barrier optionally available

# Clipmax 10 cm²





Cell culture directly on slide

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Grow your cells directly on Clipmax, a standard microscope slide (25 x 75 mm) with activated growth area and removable media chamber. The time-consuming trypsinizing of the cells before microscopy is no longer necessary. Due to the unique optical properties of the polymer TPP uses for Clipmax, microscopic applications in fluorescence microscopy are now possible that were not with polystyrene. Thus, Clipmax is perfectly suited for cell culture, immunocytochemistry and a variety of microscopic applications.

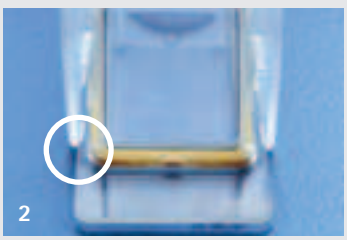
Features of **Clipmax**:

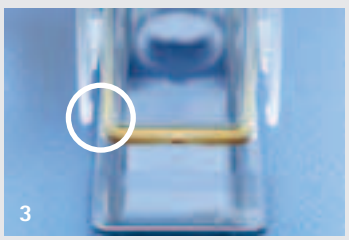
- COP slide
- Refractive index similar to glass (nD 589 nm): 1.52
- UV measurements >300nm, i.e. suitable for confocal fluorescence microscopy
- Suitable for individual coatings
- Suitable for staining and especially for immunofluorescence measurements
- Activated growth surface area for delicate cells
- Gas exchange: Clipmax through filter screw cap, Slidemax through lid with integrated spacers
- Resistant to solvents (e.g. acetone, ethanol, xylene)
- Removable medium chamber with a "click" and without the need of a removing tool
- Initial opening protection
- Filter screw cap for optimal gas exchange with minimal evaporation
- Stackable

| Type | Product-No. | Growth Area cm² | Version | Dimensions l x w x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|
|  | 70010 | 10 | filter, clip | 93 x 33 x 32 | PS / COP | 1 | 5 |

1. Clipmax with filled media chamber
2. Before medium chamber is removed
3. After medium chamber is removed
4. Remove medium chamber by a click, no tool necessary

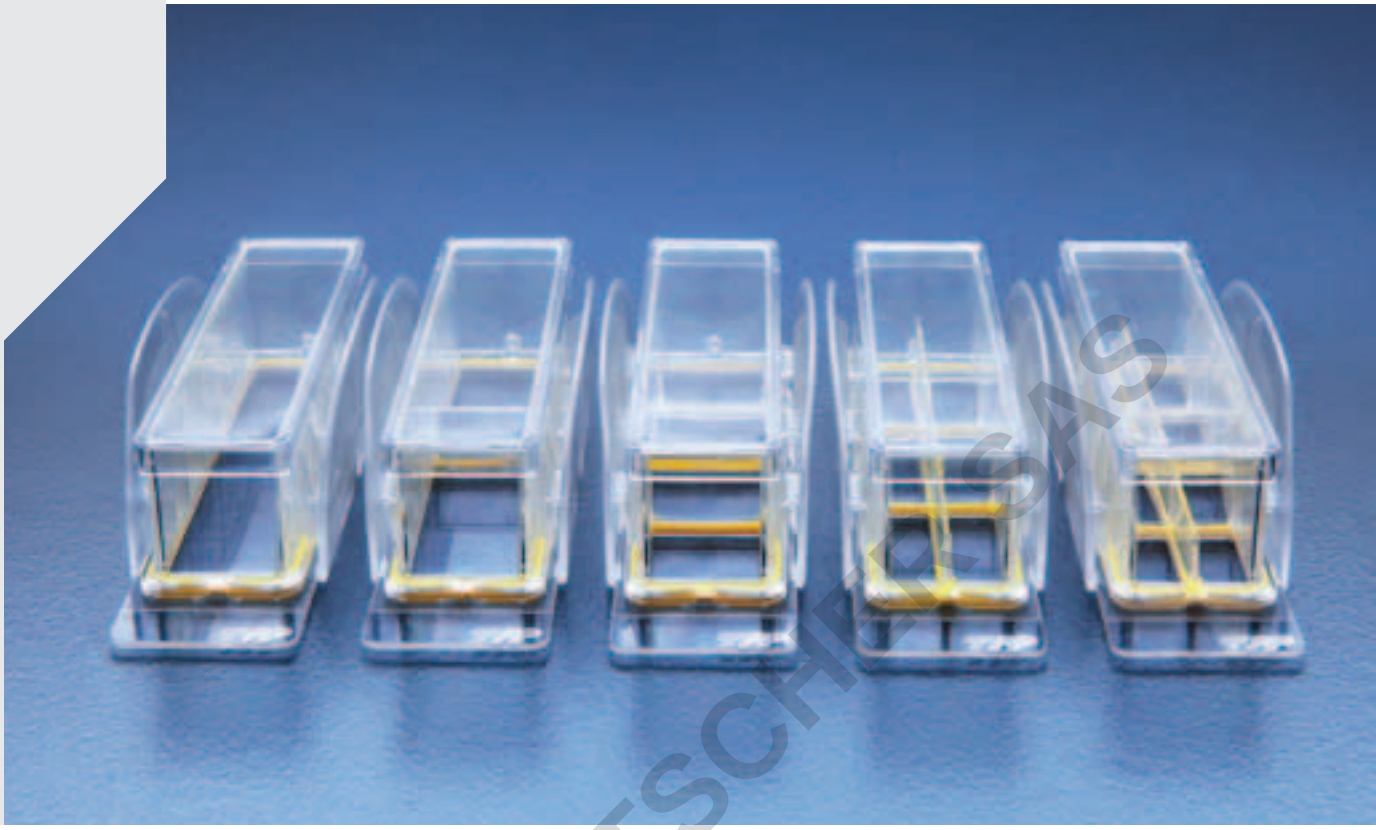




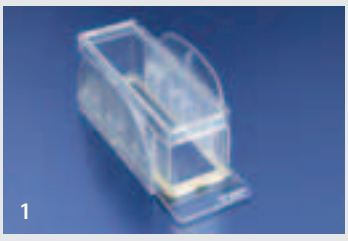

# Slidemax 1-8 well

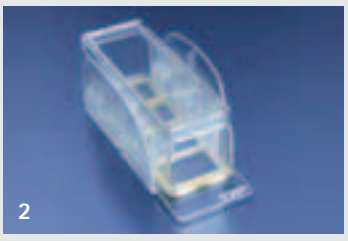


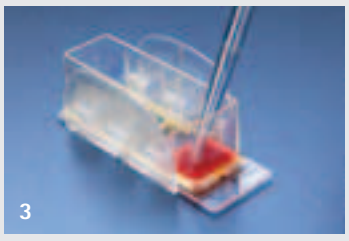
The Slidemax offers the same exceptional quality features as the Clipmax, with the convenience of growing cells directly on a standard-sized COP slide. With configurations ranging from 1 to 8 wells, the Slidemax easily adapts to your specific needs.
Its removable lid with integrated spacers ensures consistent gas exchange, creating optimal growth conditions for your cells. The wells are easily accessible from the top for efficient and user-friendly handling throughout your workflow.

| Type | Product-No. | Growth Area $cm^2$ | Version | Dimensions l x b x h mm | Material | Qty/Bag pcs | Qty/Case pcs |
|---|---|---|---|---|---|---|---|
| | 71011 | 1 x 10.2 | 1 Well | 93 x 33 x 32 | PS/COP | 1 | 5 |
| | 71012 | 2 x 4.85 | 2 Well | 93 x 33 x 32 | PS/COP | 1 | 5 |
| | 71014 | 4 x 2.22 | 4 Well | 93 x 33 x 32 | PS/COP | 1 | 5 |
| | 71016 | 6 x 1.31 | 6 Well | 93 x 33 x 32 | PS/COP | 1 | 5 |
| | 71018 | 8 x 0.94 | 8 Well | 93 x 33 x 32 | PS/COP | 1 | 5 |

1. Slidemax 1 well
2. Slidemax 4 well
3. Filling the medium chambers from above
4. Slidemax and Clipmax







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# Tissue Culture Flat Tube 10 cm² and Tissue Culture Tube 20 cm²



3-in-1 product:
Cultivation
Examination
Centrifugation

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The tissue culture tubes are a supplement to the TPP tissue culture flask product range.

Features of the **Tissue Culture Flat Tube 10 cm²:**

- **Cultivation**: 10 cm² surface activated growth area
- Large opening for complete access of pipettes and scrapers
- **Examination**: visual control with inverse microscopes
- Sloped and flattened upper side minimizes disturbing light refractions of the back light
- **Centrifugation**: 1'200 x g in 50 ml standard tube adapter
- Conical form eases removal of pellet
- Segmental packaging for scratch-free transportation

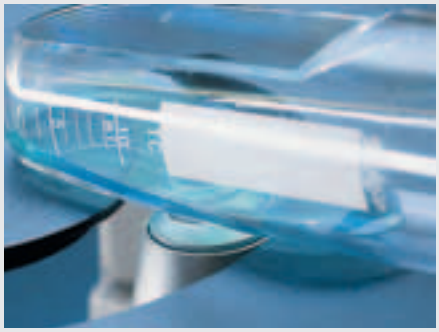
Features of the **Tissue Culture Tube 20 cm²:**

- 20 cm² surface activated growth area
- Volume graduations down to 0.5 ml
- A click and the VENT screw cap is in the aeration position, guaranteeing gas exchange even in vertical position of the tube
- Centrifuge 1'200 x g, fits a 15 ml standard tube adapter
- Convenient re-closable zipper bag with laser perforation

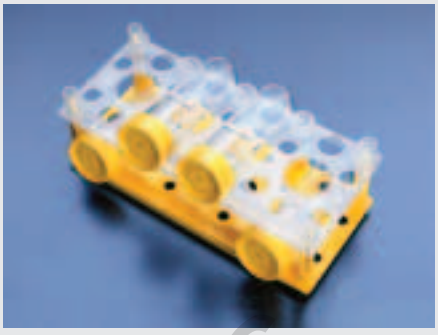
The TPP tissue culture rack fits 8 x tissue culture flat tubes 10 in a horizontal position for storage in a $CO_2$ incubator.



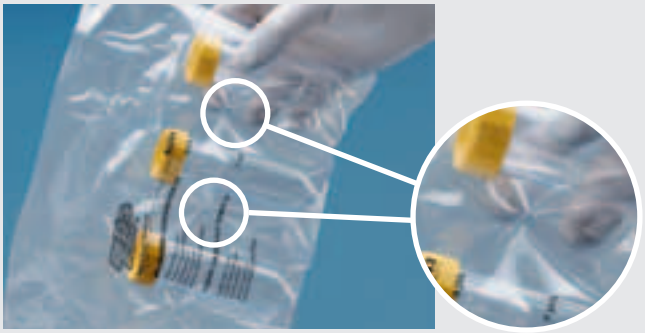
Tissue culture flat tube with filter screw cap



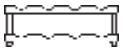
Tissue culture flat tube on inverse microscope



Rack for tissue culture flat tubes



Segmental packaging allows scratch-free transportation

| Type | Product-No. | Growth Area | Version | Volume max. | Centrifugal Acceleration | Dimensions Ø x l | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | | ml | max x g | mm | | pcs | pcs |
|  | 91106 | 20 | VENT | 5 | 1'200 | 16 x 120 | PS | 20 | 800 |
|  | 91243 | 10 | filter | 10 | 1'200 | 30 x 105 | PS | 4 | 216 |
|  | 99018 | - | rack | 8 x 91243 / 8 x 91106 | - | 200 x 88 x 72 | PP | 1 | 28 |

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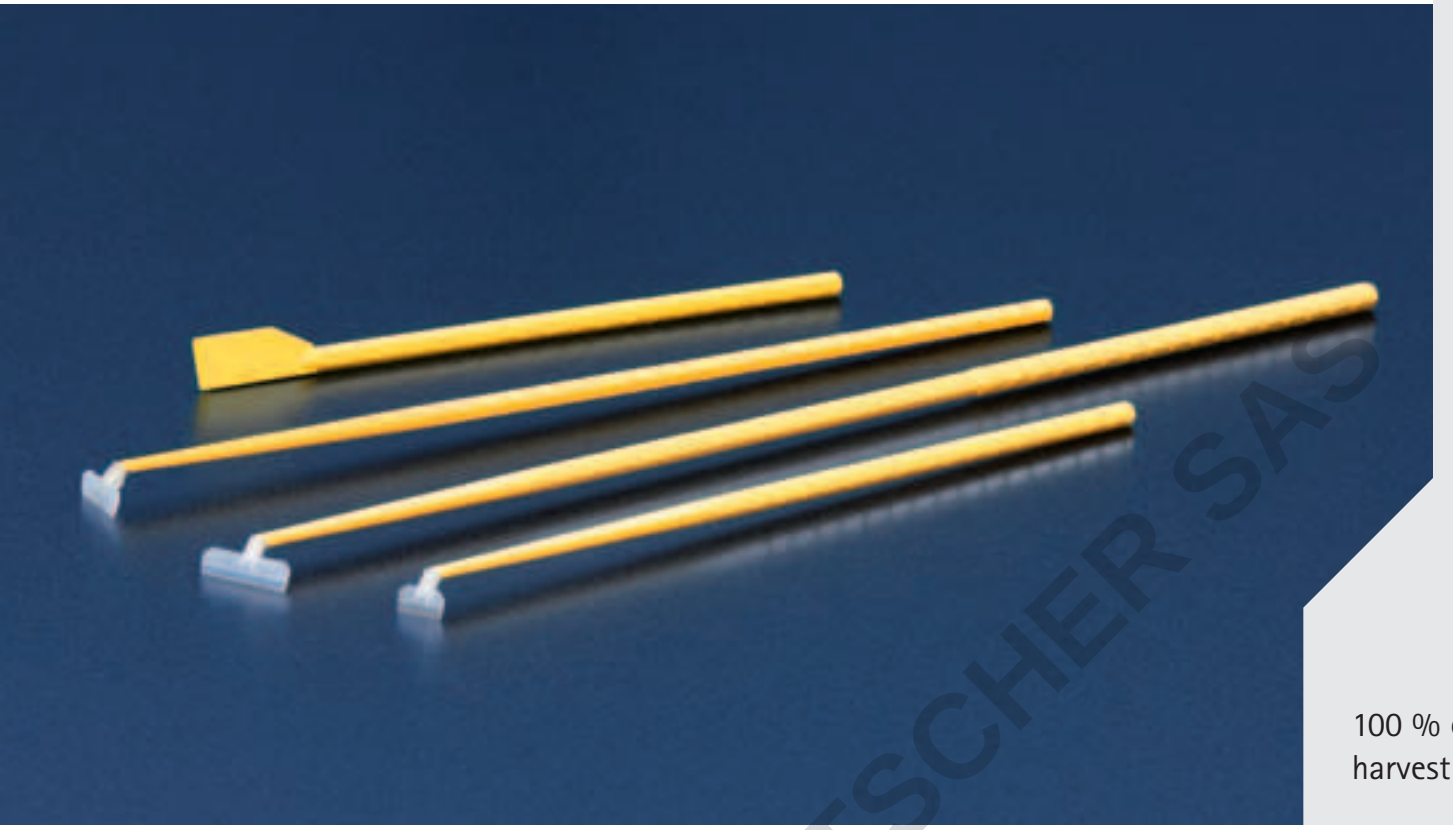






1. Tissue scraper in tissue culture flat tube
2. Surface activation

# Cell Scraper and Cell Spatula



100 % cell harvest

Features of the **Cell Scraper**:

- Scraper heads made from a flexible polyethylene material
- Pivoting scraper head for easy maneuvering
- Three different blade widths
- Small raised knobs on handle for secure grip
- Single-wrapped in blister packaging
- User-friendly dispenser case

Features of the **Cell Spatula**:

- Blade with sharp edges
- Small raised knobs on handle for secure grip
- Single-wrapped in blister packaging
- User-friendly dispenser case

The pivoting scraper head of the cell scrapper reaches every corner of the cell vessel. Pivot the scraper head by slight pressure on the handle with the forefinger thus pushing the handle downwards. A slight move of the handle will twist the head to the required position.

The cell spatula features a specially formed blade with a sharp edge. It is commonly used with the TPP tissue culture flask with re-closable lid or peel-off foil or with large tissue culture dishes.

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Rotation to the required position



Different blade widths available

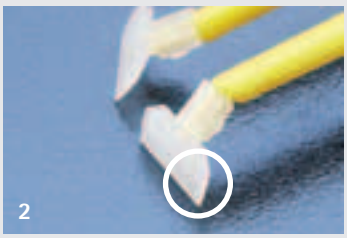


Cell scraper in a large TPP tissue culture dish

| Type | Product-No. | Length | Version | Blade Width | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | mm | | mm | | pcs | pcs |
| | 99002 | 240 | scraper "S", rotating | 13 | PE | 1 | 150 |
| | 99003 | 300 | scraper "M", rotating | 20 | PE | 1 | 150 |
| | 99004 | 362 | scraper "L", rotating | 25 | PE | 1 | 100 |
| | 99010 | 195 | spatula, fix | 14 | PP | 1 | 150 |

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1. Knobs for secure grip
2. Soft scraper head to protect the cells

# TubeSpin® Bioreactor 15 – 600 ml



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TubeSpin® bioreactors are ideal for large-scale screenings and optimizing of suspension cell system process developments. The important parameters for the production upscaling can be evaluated with small amounts. This lowers the cost and increases the efficiency of the process.

Features of **TubeSpin® bioreactor**

- TubeSpin® bioreactor 15: working volume 1 - 15 ml
  Two versions available: round or conical bottom
- TubeSpin® bioreactor 50: working volume 1 - 35 ml
  Two versions available: round or conical bottom
- TubeSpin® bioreactor 450: working volume up to approx. 300 ml
- TubeSpin® bioreactor 600: working volume up to approx. 400 ml
- Filter screw cap with 5 different openings (A-B-C-D-E)
- Fits standard centrifuge apparatus
- Spin: 15'500 x g or 3'500 x g
- Trays for shakers from Kuhner or Infors available

| Type | Product-No. | Version | Centrifugal Acceleration max x g | Volume ml | Dimensions Ø x l mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|---|
| | 87015 | conical | 15'500 | 15 | 17.1 x 120 | PP | 40 | 800 |
| | 87017 | round | 15'500 | 15 | 17.1 x 120 | PP | 40 | 800 |
| | 87050 | conical | 15'500 | 50 | 30.0 x 115 | PP | 20 | 180 |
| | 87056 | round | 15'500 | 50 | 30.0 x 115 | PP | 20 | 180 |
| | 87450 | conical | 3'500 | 450 | 96 x 145 | PP | 1 | 32 |
| | 87600 | conical | 3'500 | 600 | 100 x 183 | PP | 1 | 26 |



Openings can be sealed



Racks (available from vendor of shakers)



Bioreactor 600 after centrifugation



Filter screw caps for sterile gas exchange



Screw cap for large bioreactor, solid or filter version



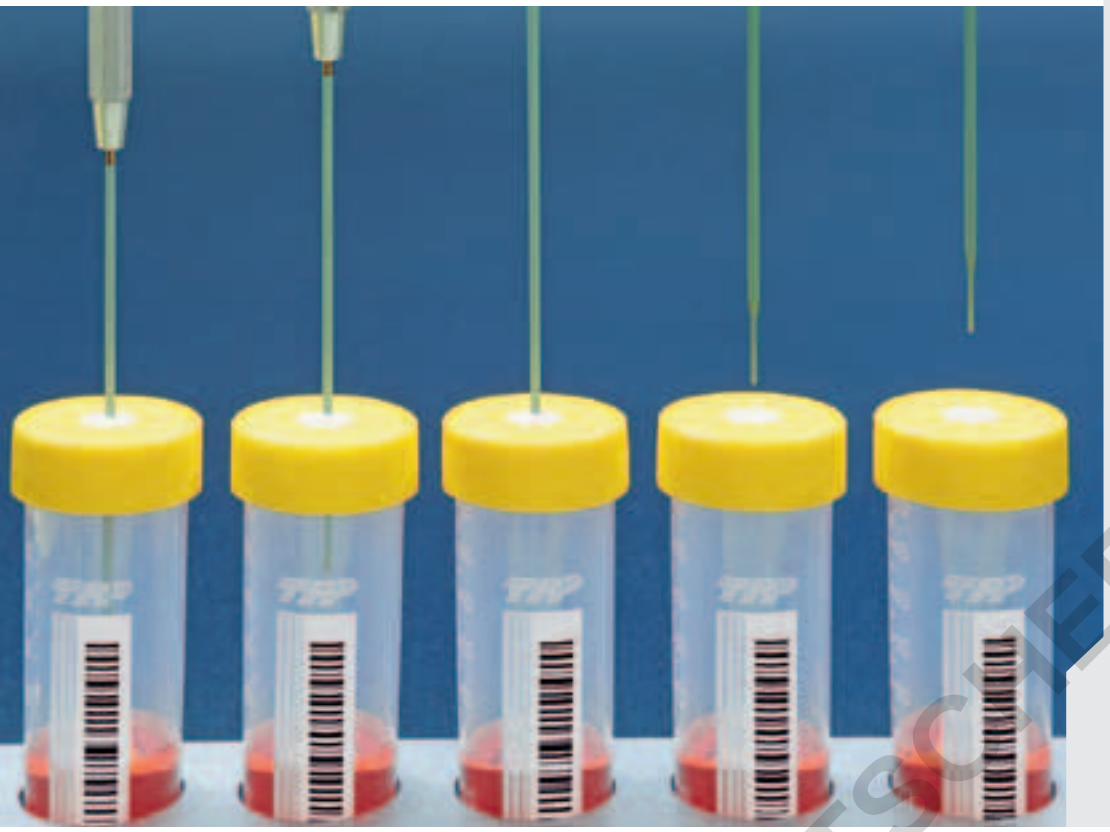

PlateButler®, Lab Services BV

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**Racks and Consumables for TubeSpin® Bioreactor**

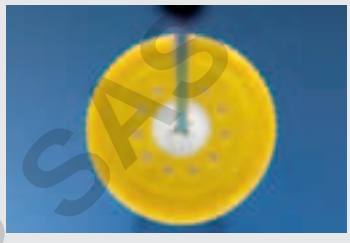
| Type | Product-No. | Version | Capacity<br>pcs | Dimensions l x w x h<br>mm | Material | Qty/ Bag<br>pcs | Qty/ Case<br>pcs |
|---|---|---|---|---|---|---|---|
| | 87355 | filter screw cap for 450 / 600 | - | 70 x 21 | PE | 1 | 20 |
| | 87356 | screw cap "solid" for 450 / 600 | - | 70 x 21 | PE | 1 | 20 |
| | 99013 | rack for 87450 / 87600 | 3 x 450 ml / 600 ml | 366 x 146 x 70 | PP | 1 | 6 |
| | 99017 | rack "S" for 87015 / 87017 / 87050 | 18 x 15 ml / 10 x 50 ml | 209 x 98 x 62 | PP | 1 | 45 |

# TubeSpin® Bioreactor 50 with Septum





Barcode for automated tracking



Re-closing septum with cross slit

## TubeSpin® bioreactor 50 with septum for robotics use

The TubeSpin® bioreactor 50 with septum is intended for the use during laboratory automations such as robotic use for sterile exchange of medium and solutions or withdrawal from cell based products.

Features of the **TubeSpin® bioreactor 50 with septum:**

- Re-closable cross-slit septum for multiple entries
- Compatible with injection needles, up to 2.1 mm (12 gauges) diameter
- Working volume < 50 ml; graduation markings start at 0.5 ml
- Barcode 128 on each tube for automated tracking coding: lot number plus count renders each tube unique
- Sterile gas exchange through filter openings in the screw cap
- Conical tube fits in standard 50 ml centrifuge adapter
- Max. centrifugal force 15'500 x g

**Usage:**

- Multiple robot entry with injection needles and cannulas through re-closable cross slit septum
- Sterile media and solution exchange or removal of cell based products, enabled by surface sterilization of septum
- Elimination of laborious screwing / unscrewing during robotic automation by access through septum
- Centrifugation of suspension cells without need of prior removal from tube

| Type | Product-No. | Version | Centrifugal Acceleration | Volume | Dimensions Ø x l | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | | max x g | ml | mm | | pcs | pcs |
|  | 86050 | conical, septum, barcode | 15'500 | | 30.0 x 115 | PP | 20 | 180 |
|  | 86550 | conical, septum | 15'500 | | 30.0 x 115 | PP | 20 | 180 |







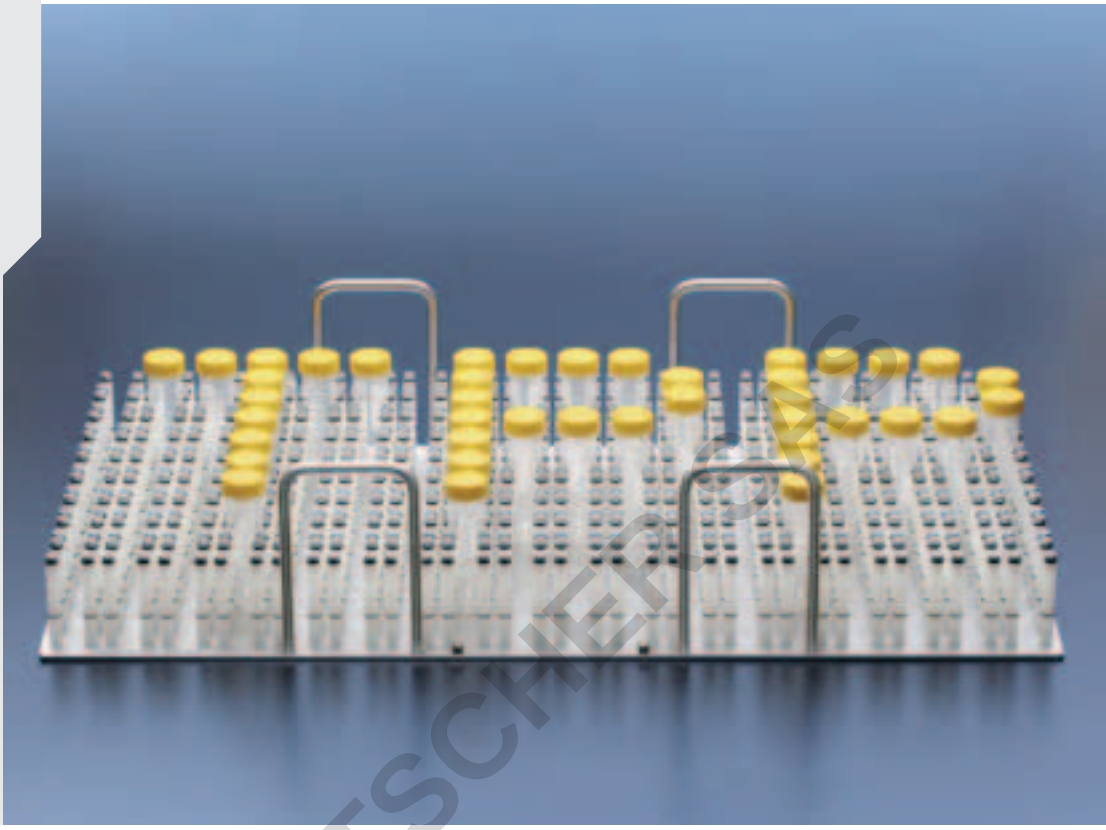
1. Holding bars for 50 ml
2. Demo-tray

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# Shaker Tray for TubeSpin® Bioreactor 50 – 600 ml



Stable fixation with holding bars



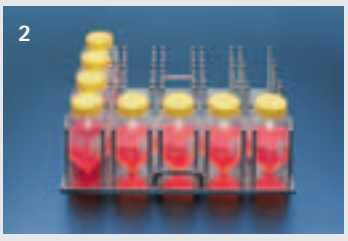
## Shaker Tray for TubeSpin® Bioreactor

Features of **shaker tray:**

- Shaker tray fits the relevant shaker model from Kuhner or Infors
- Aluminum
- Guarantees largest possible volume per tray
- Secure fixation of the tubes with holding bars

| Type | Product-No. | Version | Capacity | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | | pcs | mm | | pcs | pcs |
| | 87414 | Kuhner tray 162, bioreactor 50 | 162 x 50 ml | 800 x 420 x 139 | Alu / PA | 1 | 1 |
| | 87411 | Kuhner tray 32, bioreactor 450 | 32 x 450 ml | 800 x 420 x 139 | Alu | 1 | 1 |
| | 87412 | Kuhner tray 20, bioreactor 450 | 20 x 450 ml | 500 x 420 x 139 | Alu | 1 | 1 |
| | 87413 | Kuhner tray 16, bioreactor 450 | 16 x 450 ml | 420 x 420 x 139 | Alu | 1 | 1 |
| | 87431 | Infors Multitron tray 32, bioreactor 450 | 32 x 450 ml | 850 x 470 x 139 | Alu | 1 | 1 |
| | 87433 | Infors Minitron tray 16, bioreactor 450 | 16 x 450 ml | 480 x 420 x 139 | Alu | 1 | 1 |
| | 87611 | Kuhner tray 32, bioreactor 600 | 32 x 600 ml | 800 x 420 x 139 | Alu | 1 | 1 |
| | 87612 | Kuhner tray 20, bioreactor 600 | 20 x 600 ml | 500 x 420 x 139 | Alu | 1 | 1 |
| | 87613 | Kuhner tray 16, bioreactor 600 | 16 x 600 ml | 420 x 420 x 139 | Alu | 1 | 1 |
| | 87631 | Infors Multitron tray 32, bioreactor 600 | 32 x 600 ml | 850 x 470 x 139 | Alu | 1 | 1 |
| | 87633 | Infors Minitron tray 16, bioreactor 600 | 16 x 600 ml | 480 x 420 x 139 | Alu | 1 | 1 |



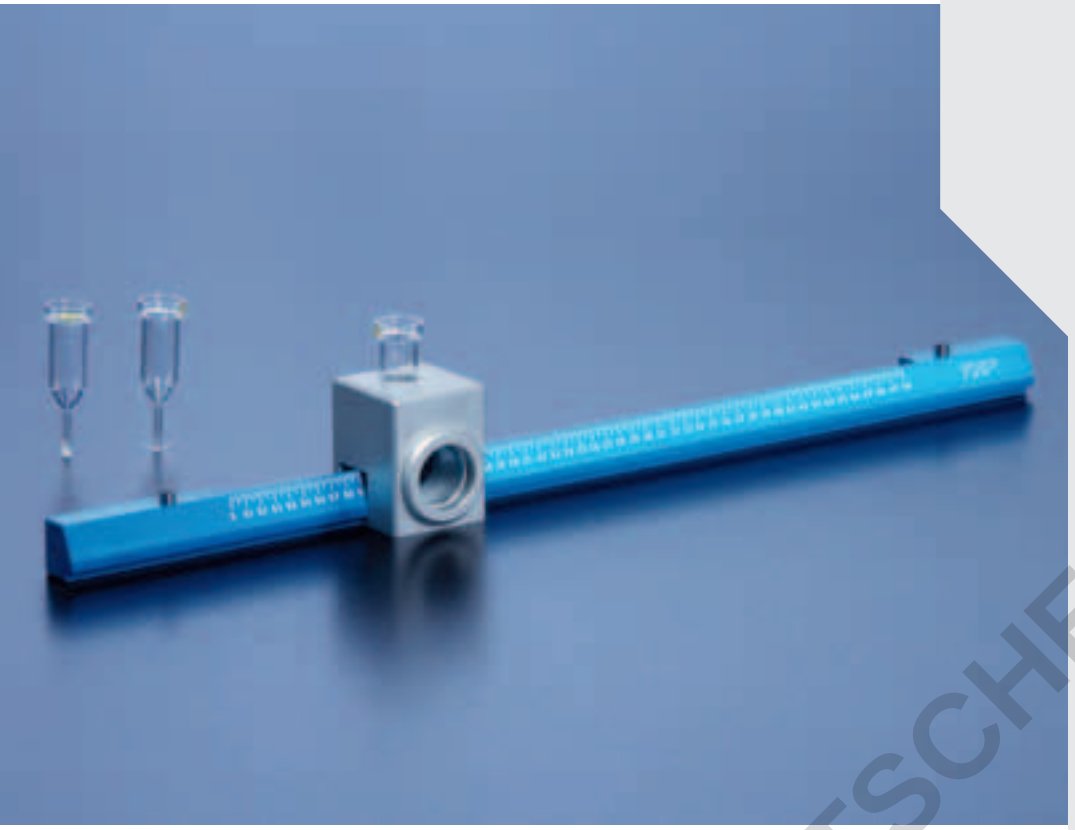


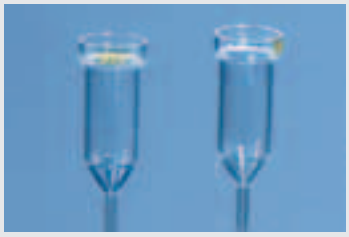


1. Shaker tray for 16 tubes
2. Shaker tray for 20 tubes
3. Shaker tray for 32 tubes

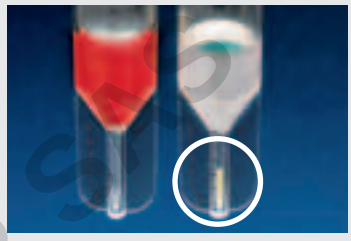
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# Packed Cell Volume Tube (PCV)





PCV tube without graduation



Left PCV before / right PCV after centrifugation

The PCV tube enables a quick and reproducible measuring technique of the cell volume. This quick method is ideal to monitor cell growth (cell mass).

If during a production process many parameters need to be optimized, many samples accumulate at the same time. In this case a quick analysis with the PCV tube and the read-out process with "easy read" is the method of the choice.

A short centrifugation step (1 minute at 2'500 x g) is sufficient to form a pellet in the calibrated capillary. There the pellet can be measured with the "easy read" measuring device.

Features of **Packed Cell Volume (PCV) Tube**:

- PCV tube available with or without scale
- Fits in micro centrifuges
- Caps available

**Determination of cells/ml**

Conversion of PCV volume in cells/ml by an initial parallel determination with the PCV tube and a hemacytometer

**Step 1**

Determine cell number with the hemocytometer

**Step 2**

Determine volume of cell pellet with PCV tube from 1 ml cell suspension of the same sample

**Step 3**

Divide number of cells (step 1) by volume of cell pellet µl (step 2)

**Result**

Result = number of cells per µl cell pellet

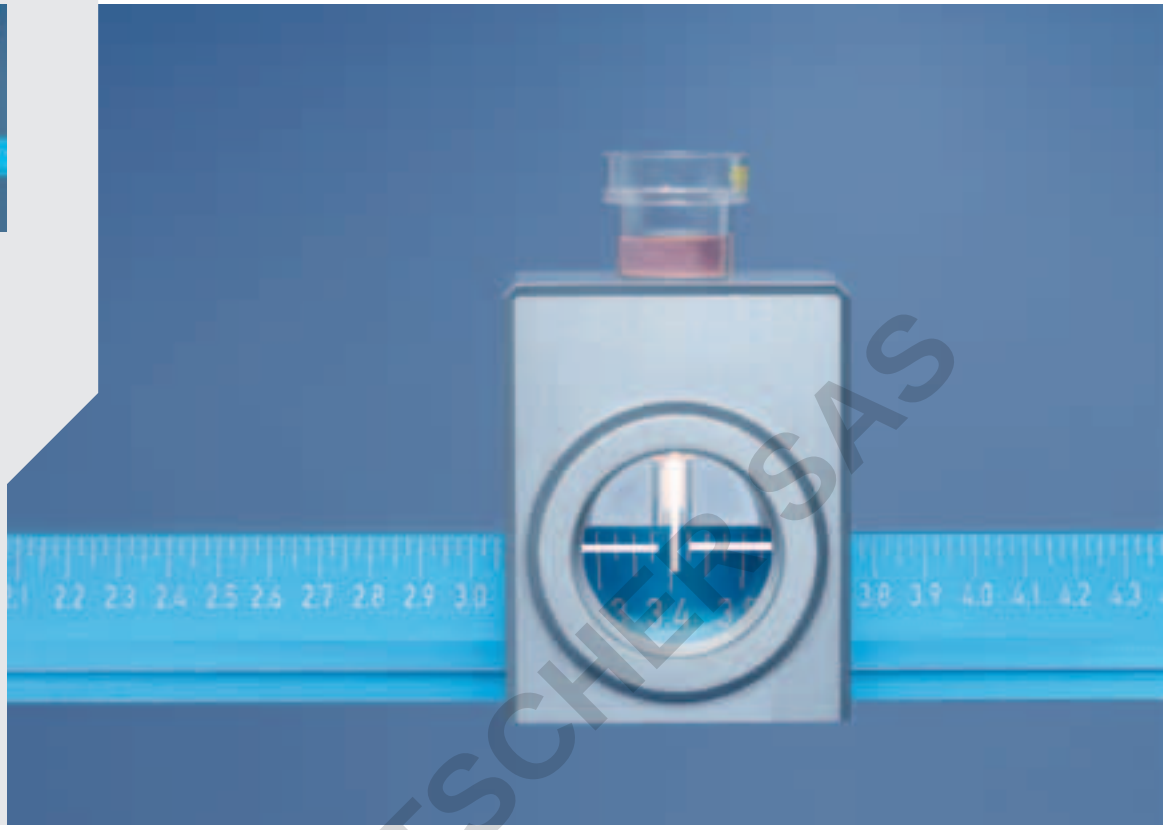
| Type | Product-No. | Version | Volume | Dimensions Ø x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | | ml | mm | | pcs | pcs |
| | 87005 | with volume scale | 1 | 10.5 x 43 | PS | 50 | 250 |
| | 87007 | neutral | 1 | 10.5 x 43 | PS | 50 | 150 |
| | 87008 | cap for PCV | | 13.5 x 7 | PE | 50 | 150 |

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# "easy read" Measuring Device



Easy metering with "easy read"



The most commonly used method for determination of cell number density is to count cells manually with the hemocytometer. However, it is time-consuming.

The TPP system provides a fast, easy-to-use reproducible and accurate alternative. The PCV tubes enable the determination of the packed cell volume in a cell suspension, resulting in absolute data correlating with parameters like protein content, cell count, metabolic activity and others.

The PCV tubes are particularly convenient to work with, requiring neither special training nor sophisticated expensive machines - in contrast to automated cell counting devices.

Features of **"easy read" Measuring Device**:

- Optimal with the use of PCV tubes
- Accurate and reproducible cell pellet measuring
- Solid re-usable and easy handling measuring device
- Measuring volume 0 - 5 µl

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| Type | Product-No. | Version | Volume | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | | µl | mm | | pcs | pcs |
| | 87010 | "easy read" measuring device | 0 - 5 | 320 x 33 x 38 | Alu | 1 | 1 |

# Serological Pipette with Reservoir 5 – 70 ml




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Features of the **serological pipette:**

- Accurate volume 5 - 70 ml
- Highly visible, bidirectional graduation inclusive over-volume graduation
- Smooth interior prevents cell hang-up or clumping inside
- Excellent optical transparency
- Volume identification by color-coding on pipettes, blister wrappings, dispensers, box labels
- Convenient, stackable dispenser box
- Single wrapped in blisters, version paper / plastic or plastic / plastic available
- Reservoir
- Stable, break-resistant, highly low drip pipette tip
- Slender, short form enables ergonomic working conditions in the sterile hood
- Optimized form of mouthpiece
- Small outside diameter of the tube at the tip results in an excellent accessibility of these large pipettes even in small tissue culture flasks
- Fits in pipette aid Turbo-Fix or all commercially available pipette aids with rubber inserts

TPP pipettes are free from pyrogens; non-cytotoxic and non-hemolytic.

Axial tapered tip for robotic use.

Patented highly polished interior wall, results in a RA value of exceptional range.




1. Burr free tips



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### Paper / Plastic Blister

| Type | Product-No. | Volume | Reservoir | Color | Dimensions Ø x h | Volume Scale | Material | Packaging | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | ml | | mm | ml | | | pcs |
| - . : ·- | 94504 | 5 | 3.5 | blue | 14.0 x 265 | 1/10 | PS | paper / plastic | |
| - . : ·- | 94505 | 5 | 4 | blue | 12.8 x 345 | 1/10 | PS | paper / plastic | |
| - . : ·- | 94509 | 10 | 5.5 | orange | 16.5 x 265 | 1/10 | PS | paper / plastic | |
| - . : ·- | 94510 | 10 | 7 | orange | 15.6 x 345 | 1/10 | PS | paper / plastic | |
| - . : ·- | 94525 | 25 | 15 | red | 20.5 x 345 | 2/10 | PS | paper / plastic | 60 |
| - . : ·- | 94550 | 50 | 20 | purple | 24.0 x 345 | -- | PS | paper / plastic | 50 |

### Plastic / Plastic Blister

| Type | Product-No. | Volume | Reservoir | Color | Dimensions Ø x h | Volume Scale | Material | Packaging | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | ml | | mm | ml | | | pcs |
| - . : ·- | 95504 | 5 | 3.5 | blue | 14.0 x 265 | 1/10 | PS | plastic / plastic | |
| - . : ·- | 95505 | 5 | 4 | blue | 12.8 x 345 | 1/10 | PS | plastic / plastic | |
| - . : ·- | 95509 | 10 | 5.5 | orange | 16.5 x 265 | 1/10 | PS | plastic / plastic | |
| - . : ·- | 95510 | 10 | 7 | orange | 15.6 x 345 | 1/10 | PS | plastic / plastic | |
| - . : ·- | 95525 | 25 | 15 | red | 20.5 x 345 | 2/10 | PS | plastic / plastic | 60 |
| - . : ·- | 95550 | 50 | 20 | purple | 24.0 x 345 | - | PS | plastic / plastic | 50 |



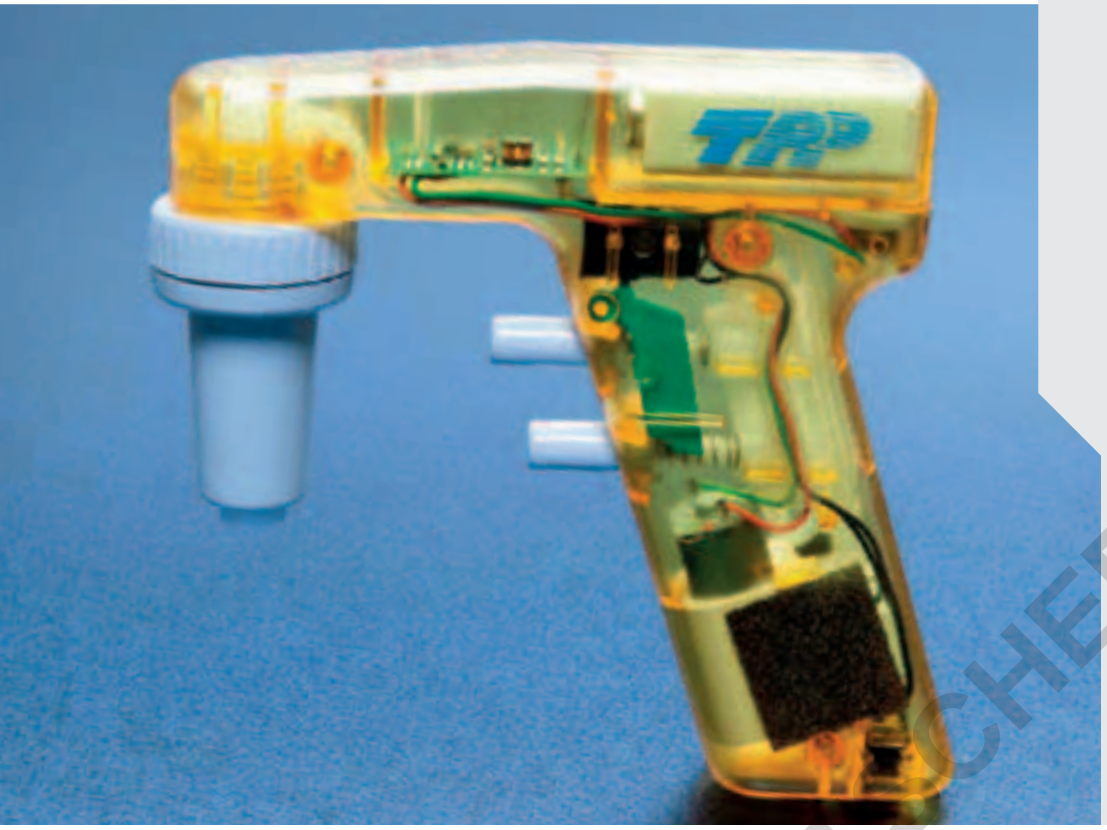







1. TPP Norm 8 mouth piece
2. Stabifix gives secure handling
3. High precision tip

# Turbo-Fix Pipette Aid



Highest pipetting speed with Turbo-Fix

Turbo-Fix pipette aid is for aspiration and dispensing aqueous solutions with pipettes of 1 - 100 ml volume. When connected with electric supply, the Turbo-Fix features an extraordinary high suction force and a long operation time. A turbo-quick lightweight, especially when working with large volume pipettes.

Features of **Turbo-Fix** pipette aid:

- Turbo suction force approx. 13.5 ml/sec (with a serological pipette 50 ml)
- More than six hours pipetting cable free
- Lithium-ion polymer rechargeable battery-technology
- Lightweight = 195 g
- Gravity dispense possible
- Autoclavable pipette nose Stabifix included

The **pipetting speed** can be controlled with two systems:

- Sensitive control of the liquid by applying various finger pressures on the two triggers, from fine to fast pipetting.
- Turn the thumb wheel on the back of the instrument to regulate the speed, providing a sensitive control of the liquid level in the pipette.

| Type | Product-No. | Version | Dimensions l x w x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|
| | 94700 | type C: adapter for EU | 35 x 125 x 130 | PA / POM | 1 | 1 |
| | 94701 | type A, adapter for China / USA / Japan | 35 x 125 x 130 | PA / POM | 1 | 1 |
| | 94702 | type G: adapter for UK | 35 x 125 x 130 | PA / POM | 1 | 1 |
| | 94703 | type I: adapter for AUS | 35 x 125 x 130 | PA / POM | 1 | 1 |



1


2

1. 20 % more suction force with power supply
2. Turbo-Fix

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# Turbo-Fix Consumables

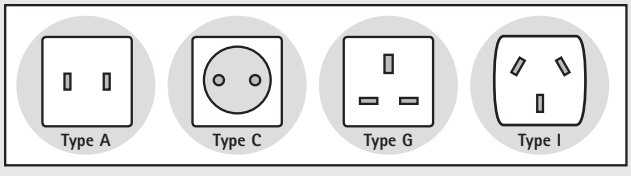


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## Turbo-Fix Consumables

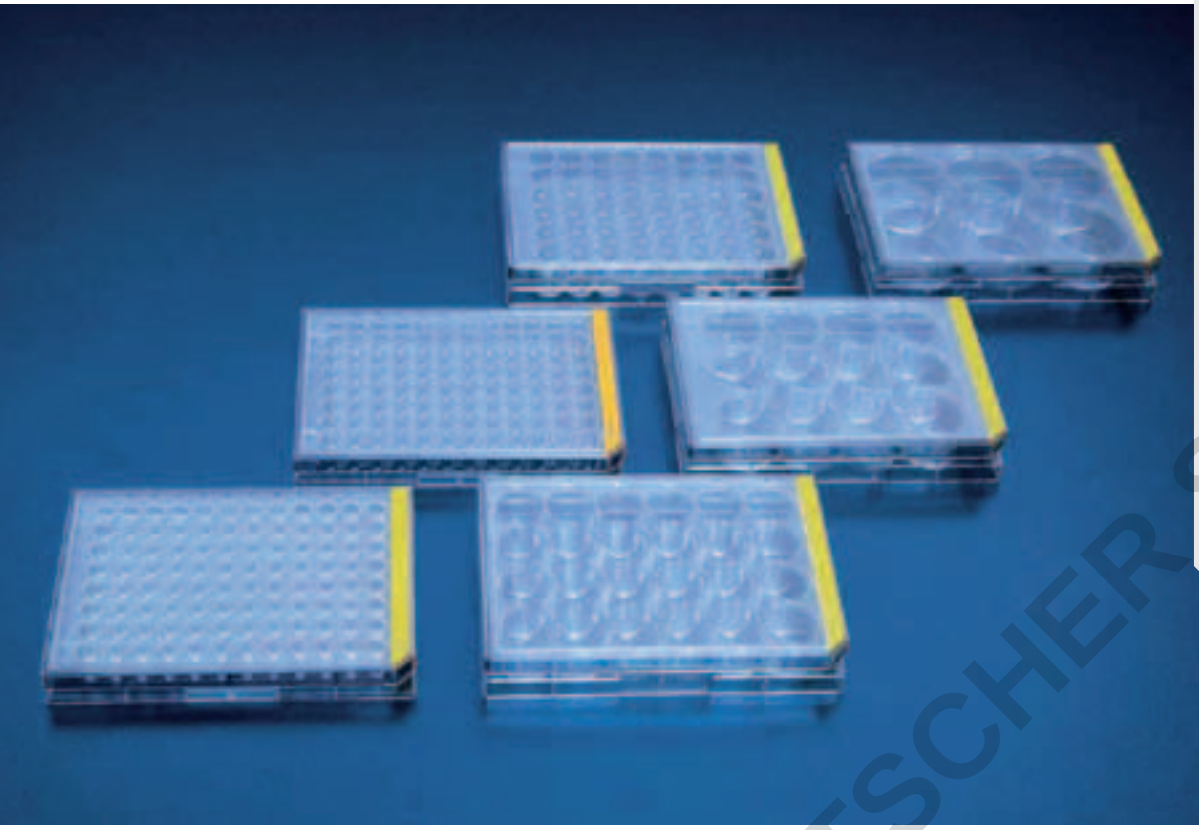
| Type | Product-No. | Version | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|
| | 94750 | Stabifix nose piece, set | var. | 1 | 1 |
| | 94751 | wall mount | PE | 1 | 1 |
| | 94763 | replacement filter, 0.45 µm, blue | var. | 1 | 5 |
| | 94764 | replacement filter, 0.22 µm, red | var. | 1 | 5 |
| | 94754 | pipette mount in Stabifix | silicone | 1 | 1 |
| | 94755 | filter rubber in Stabifix | silicone | 1 | 1 |
| | 94757 | battery compartment lid | PA | 1 | 1 |
| | 94758 | housing | PA | 1 | 1 |
| | 94760 | mains adapter type C for EU | var. | 1 | 1 |
| | 94761 | mains adapter type A for China / USA / Japan | var. | 1 | 1 |
| | 94762 | mains adapter type G for UK | var. | 1 | 1 |
| | 94763 | mains adapter type I for AUS | var. | 1 | 1 |

Types of mains adapter / power supply




Safety approved: PSE, UL, GS, RCM, CE, FCC, CCC

# Tissue Culture Test Plate 6 – 96 wells



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Features of the **Tissue Culture Test Plates:**

- Lid with air-venting system for controlled gas exchange with low evaporation
- Vented base for air flow between stacked dishes to prevent condensation
- Sloped edge allows placement of the lid in one position only
- Yellow inscription field: yellow on yellow - match!
- Surface activated growth area on spherical zone of well only
- Crystal clear transparency for excellent viewing
- Black alphanumerics for quick identification of the wells
- Clear alphanumerics between wells for orientation during microscopy

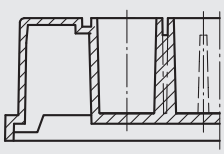
Additional features of **Tissue Culture Test Plates with 96 wells:**

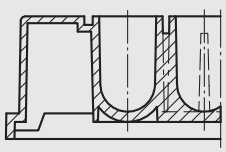
- Manufactured according to ANSI/SLAS 1-2204 to ANSI/SLAS 4-2004
- Two well geometries available: F- and U-bottom

The well geometry is an important criterion with a 96 well tissue culture plate. TPP offers two types of well geometries.

**F-base**

- Excellent optical characteristics
- Suitable for precise optical measurements, the measuring light is not distracted by the geometry
- Suitable for microscopy applications (bottom reading)
- Growth area 0.342 cm²

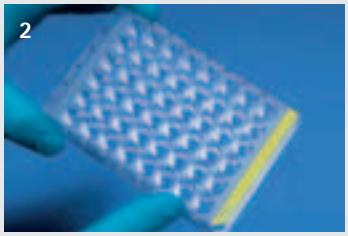




**U-base**

- No rims, well suited for pipetting
- Used for agglutination tests and "+/-" evaluations
- Growth area: 0.965 cm²

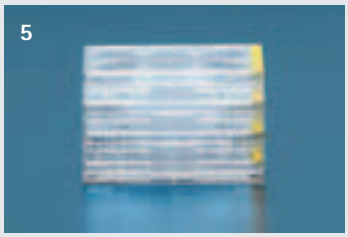









1. Black alphanumerical labelling
2. Yellow inscription field
3. Excellent stacking
4. Alphanumerical identification mark next to each well
5. Gripping edges

## Optimal gas exchange with lowest evaporation

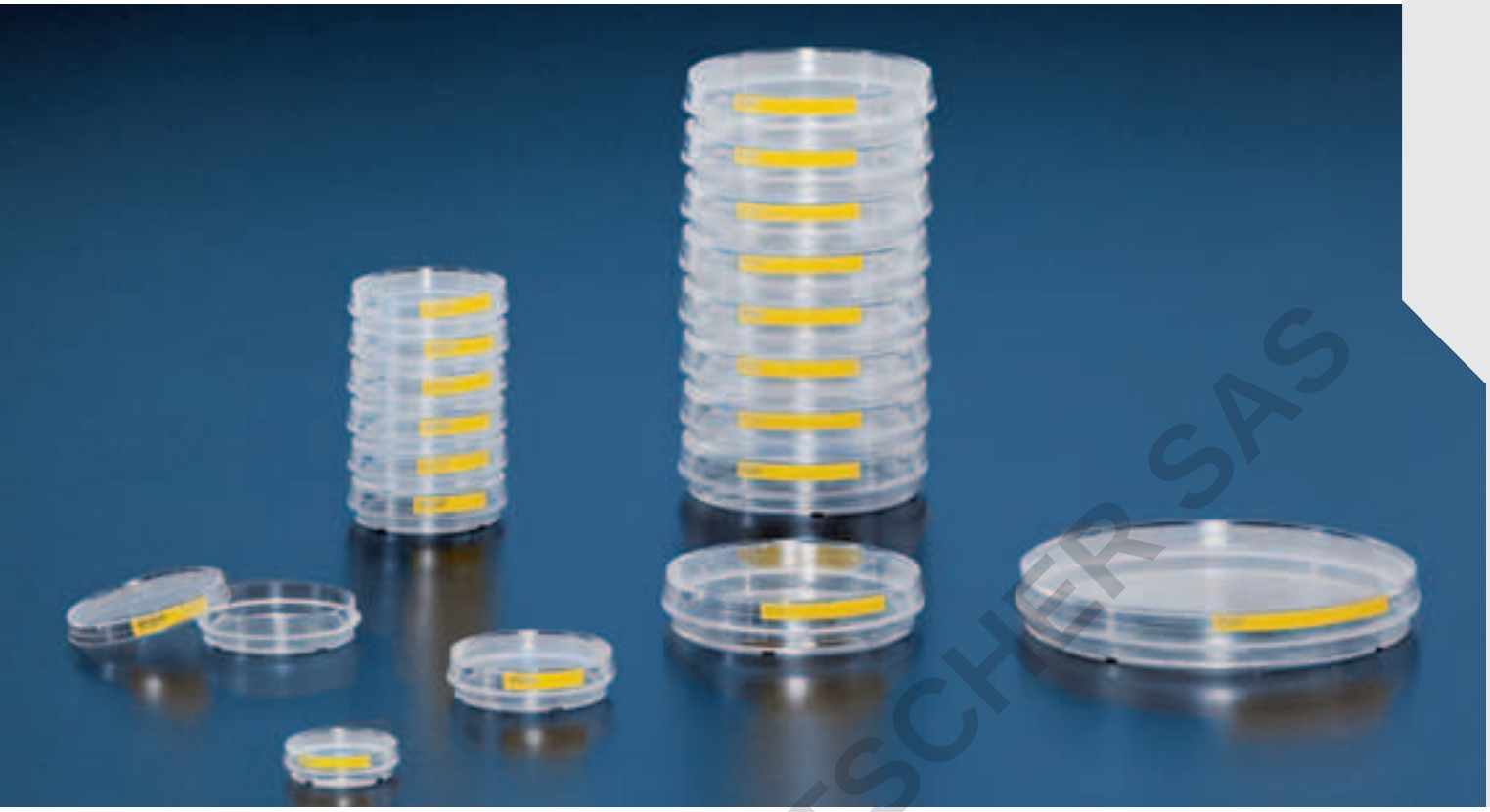
| Type | Product-No. | Number Wells | Growth Area | Version | Volume | Inside-Ø | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|---|
| | | pcs | $cm^2$ | | ml | mm | mm | | pcs | pcs |
| | 92006 | 6 | 9.026 | F | 15.52 | 33.9 | 128 x 86 x 22 | PS | 1 | 126 |
| | 92012 | 12 | 3.464 | F | 5.87 | 21.0 | 128 x 86 x 22 | PS | 1 | 126 |
| | 92024 | 24 | 1.863 | F | 3.19 | 15.4 | 128 x 86 x 22 | PS | 1 | 126 |
| | 92048 | 48 | 0.882 | F | 1.51 | 10.6 | 128 x 86 x 22 | PS | 1 | 126 |
| | 92096 | 96 | 0.342 | F | 0.38 | 6.4 | 128 x 86 x 17 | PS | 1 | 162 |
| | 92097 | 96 | 0.965 | U | 0.32 | 6.4 | 128 x 86 x 17 | PS | 1 | 162 |
| | 92406 | 6 | 9.026 | F | 15.52 | 33.9 | 128 x 86 x 22 | PS | 4 | 72 |
| | 92412 | 12 | 3.464 | F | 5.87 | 21.0 | 128 x 86 x 22 | PS | 4 | 72 |
| | 92424 | 24 | 1.863 | F | 3.19 | 15.4 | 128 x 86 x 22 | PS | 4 | 72 |
| | 92448 | 48 | 0.882 | F | 1.51 | 10.6 | 128 x 86 x 22 | PS | 4 | 72 |
| | 92696 | 96 | 0.342 | F | 0.38 | 6.4 | 128 x 86 x 17 | PS | 6 | 108 |
| | 92697 | 96 | 0.965 | U | 0.32 | 6.4 | 128 x 86 x 17 | PS | 6 | 108 |

**Tissue Culture Test Plate 6 - 96 wells, Single Wrapped, Small Packaging Unit**

| Type | Product-No. | Number Wells | Growth Area | Version | Volume | Inside-Ø | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|---|---|
| | | pcs | $cm^2$ | | ml | mm | mm | | pcs | pcs |
| | 92106 | 6 | 9.026 | F | 15.52 | 33.9 | 128 x 86 x 22 | PS | 1 | 42 |
| | 92112 | 12 | 3.464 | F | 5.87 | 21.0 | 128 x 86 x 22 | PS | 1 | 42 |
| | 92124 | 24 | 1.863 | F | 3.19 | 15.4 | 128 x 86 x 22 | PS | 1 | 42 |
| | 92148 | 48 | 0.882 | F | 1.51 | 10.6 | 128 x 86 x 22 | PS | 1 | 42 |
| | 92196 | 96 | 0.342 | F | 0.38 | 6.4 | 128 x 86 x 17 | PS | 1 | 54 |
| | 92197 | 96 | 0.965 | U | 0.32 | 6.4 | 128 x 86 x 17 | PS | 1 | 54 |

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# Tissue Culture Dish 40 – 150 $cm^2$

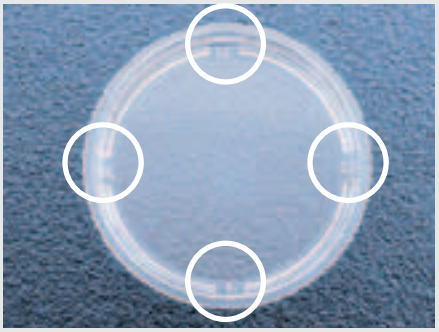


Features of the **Tissue Culture Dish:**

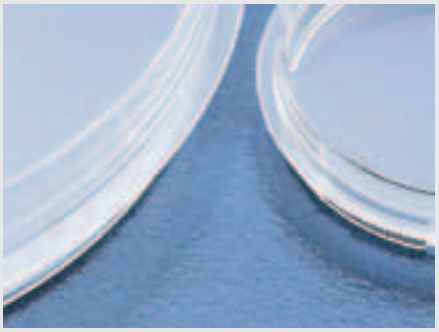
- Surface activation of the growth area enhancing optimal proliferation of the cells
- Side wall of dish is not surface activated
- Gripping ring with serrated edges prevents accidental dropping of the dish bottom
- Lateral yellow inscription field on the lid
- Stacking ring on the lid and corresponding on the base resulting in an extremely secure stacking feature
- Spacer on the inside of the dish lid for a constant movement of air
- Clock-numbering system (3, 6, 9 and 12) inlaid into the base of the dish allows identification, region of interest definition and documentation of the zones
- Vents in the dish base rim for airflow between stacked dishes for consistent growth conditions and prevention of condensation
- Impeccable optical clarity enables a visual control of the cells in stacked dishes using transmitted light

TPP tissue culture dishes are designed for **manual** handling only.

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Clock-numbering system inlaid into the base of the dish



The gripping ring: often copied, never like the original!

## The TPP gripping ring: often copied, but never like the original!

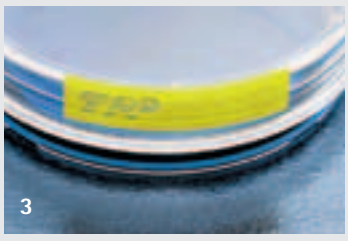
| Type | Product-No. | Growth Area | Inside-Ø | Dimensions Ø x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|
| | | $cm^2$ | mm | mm | | pcs | pcs |
| | 93040 | 9.2 | 34 | 40 x 11 | PS | 20 | 900 |
| | 93060 | 22.1 | 53 | 60 x 16 | PS | 14 | 840 |
| | 93100 | 60.0 | 87 | 96 x 21 | PS | 10 | 240 |
| | 93150 | 147.0 | 137 | 146 x 21 | PS | 5 | 100 |

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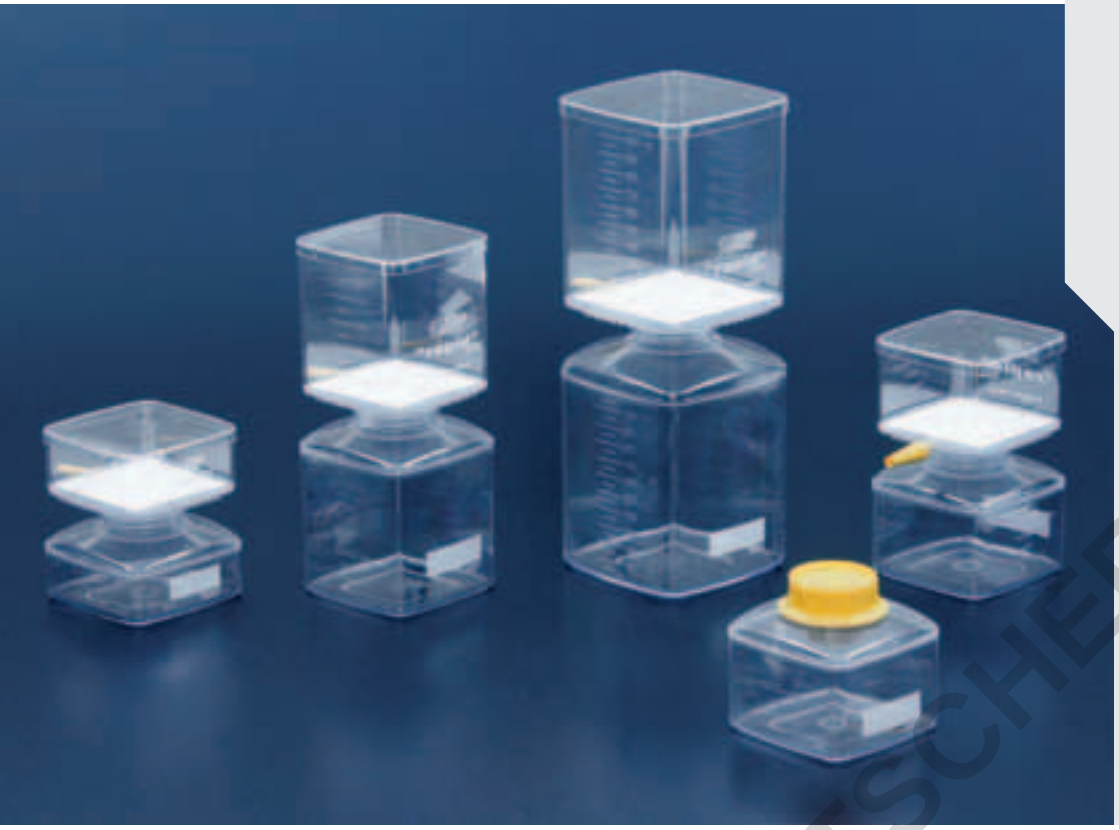







1. Convenient peel-off bag
2. Stacked tissue culture dishes
3. Yellow inscription field

# Vacuum Filtration "rapid"-Filtermax 150 - 1000 ml



## Quadratic vacuum filtration, conveniently excellent!







1. Filter top and flask are available separately
2. Flask can be used as medium reservoir

Features of the quadratic **vacuum filtration "rapid"-Filtermax:**

- Large quadratic filter surface of 49 cm² and 69 cm² respectively
- Special lamella grid support and premium PES filter membrane, pore size of 0.22 µm with low protein binding capacity resulting in an extreme high flow rate
- Square thus secure footprint eliminates the risk of encompassment of the filter unit by the vacuum tubing
- Space saving medium reservoir
- Tapered form at the neck enables large and small hands a firm and slip-free grip of the "rapid"-Filtermax system
- Each filter set comes with an adapter for the vacuum connection hose with an inside diameter of Ø 6 - 10 mm and a separately packed screw cap

**Full flexibility:** Choice of filter set, bottle top filter only or flask only, all provided with a GL-45 compatible screw thread.

TPP recommends filling the liquid into the filter first and then applying the vacuum.

| Type | Product-No. | Filtration Area | Volume | Pore Size | Dimensions l x w x h | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | cm² | ml | µm | mm | | pcs | pcs |
| | 99150 | 49 | 150 | 0.22 | 93 x 93 x 103 | PS / PES | 1 | 18 |
| | 99155 | 49 | 150 | 0.22 | 90 x 89 x 57 | PS / PES | 1 | 36 |
| | 99157 | - | 150 | - | 93 x 93 x 63 | PS | 1 | 24 |
| | 99250 | 49 | 250 | 0.22 | 93 x 93 x 145 | PS / PES | 1 | 12 |
| | 99255 | 49 | 250 | 0.22 | 90 x 89 x 75 | PS / PES | 1 | 24 |
| | 99257 | - | 250 | - | 93 x 93 x 87 | PS | 1 | 24 |
| | 99500 | 49 | 500 | 0.22 | 93 x 93 x 214 | PS / PES | 1 | 10 |
| | 99505 | 49 | 500 | 0.22 | 90 x 89 x 110 | PS / PES | 1 | 21 |
| | 99507 | - | 500 | - | 93 x 93 x 121 | PS | 1 | 36 |
| | 99560 | 49 | 500 | 0.1 | 93 x 93 x 214 | PS / PES | 1 | 10 |
| | 99950 | 69 | 1000 | 0.22 | 111 x 111 x 285 | PS / PES | 1 | 9 |
| | 99955 | 69 | 1000 | 0.22 | 108 x 108 x 143 | PS / PES | 1 | 12 |
| | 99957 | - | 1000 | - | 111 x 111 x 160 | PS | 1 | 20 |
| | 99960 | 69 | 1000 | 0.1 | 111 x 111 x 285 | PS / PES | 1 | 9 |

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# Syringe Filter 0.22 µm and 0.45 µm

Diameter 33 mm for a stable fit of the syringe filter on a 50 ml centrifuge tube



TPP syringe filters are intended to filter aqueous solutions such as tissue culture medium, buffers, protein solution, virus suspensions and DNA.

Features of the **Syringe Filter:**

- PES filter membrane with pore size 0.45 µm for pre-filtration
- PES filter membrane with pore size 0.22 µm for sterilization
- Membrane with a high flow rate with minimal protein binding
- Standard Luer lock connection enables filtration at high pressure with a syringe
- < 100 µl dead volume
- Burst pressure 10 bar
- Single packed in blister

| Type | Product-No. | Filtration Area cm² | Pore Size µm | Dimensions Ø x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|
| | 99722 | 6 | 0.22 | 33 x 27 | PET | 1 | 200 |
| | 99745 | 6 | 0.45 | 33 x 27 | PET | 1 | 200 |




1. Stable fit of the filter on a 50 ml centrifuge tube

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# Centrifuge Tube 13 – 50 ml



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Features of the **Centrifuge Tube:**

- White writing circle on screw cap for easy labelling with any writing instrument
- Caps that cannot be over-tightened
- Gas and aerosol tight cap
- Graduations all the way down to 0.1 ml and 0.5 ml respectively
- Convenient racks available

TPP processes only the highest grade of raw material that fulfils the requirements of USP Class VI. No additives are employed. By this we prevent leaching of substances into the end user's sample.

**Relative Centrifugal Force (RFC) = x g**

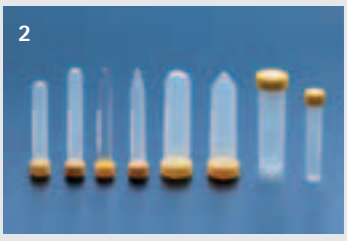
The **limit** on x g is influenced by:

- Type of rotor (diameter)
- Speed / revolution per minute

The **maximum** on x g depends on:

- Material of tubes
- Centrifugation probe (e. g. organic solvents)







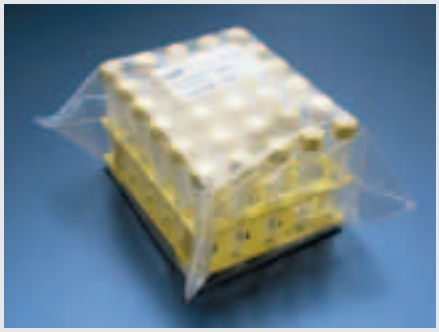
1. Writing area
2. TPP tubes, all with 2-way thread
3. Screw cap cannot be over-tightened



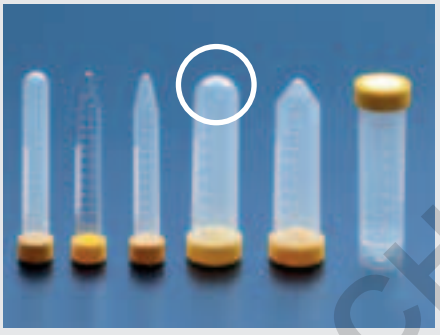
Volume graduation



White marking circle, the TPP advantage



Filled racks simplify procedures



50 ml tube with round bottom

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| Type | Product-No. | Volume | Version | Dimensions Ø x h | Centrifugal Acceleration | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | ml | | mm | max x g | | pcs | pcs |
| | 91015 | 15 | conical | 17.1 x 121 | 15'500 | PP | 40 | 800 |
| | 91016 | 13 | round, short | 17.1 x 104 | 15'500 | PP | 40 | 800 |
| | 91017 | 15 | round, long | 17.1 x 121 | 15'500 | PP | 40 | 800 |
| | 91019 | 13 | flat | 17.1 x 100 | 15'500 | PP | 40 | 800 |
| | 91050 | 50 | conical | 30.0 x 115 | 15'500 | PP | 20 | 360 |
| | 91051 | 50 | conical, self-standing | 30.0 x 115 | - | PP | 20 | 320 |
| | 91056 | 50 | round | 30.0 x 115 | 15'500 | PP | 20 | 360 |
| | 91115 | 15 | conical | 17.1 x 121 | 1'700 | PS | 40 | 800 |
| | 99017 | | rack "S" | 209 x 98 x 62 | - | PP | 1 | 45 |
| | 99019 | | rack "L" | 209 x 172 x 62 | - | PP | 1 | 30 |

### Centrifuge Tube 15 ml and 50 ml, Small Unit Packaging

| Type | Product-No. | Volume | Version | Dimensions Ø x h | Centrifugal Acceleration | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | ml | | mm | max x g | | pcs | pcs |
| | 91014 | 15 | conical | 17.1 x 121 | 15'500 | PP | 40 | 360 |
| | 91054 | 50 | conical | 30.0 x 114 | 15'500 | PP | 20 | 160 |

### Rack filled with Centrifuge Tubes 15 ml or 50 ml

| Type | Product-No. | Volume | Version | Capacity | Centrifugal Acceleration | Material | Qty/ Bag | Qty/ Case |
|---|---|---|---|---|---|---|---|---|
| | | ml | | pcs | max x g | | pcs | pcs |
| | 91515 | 15 | rack "L" + 15 ml | 30 x 15 ml, conical | 15'500 | PP | 1 | 10 |
| | 91550 | 50 | rack "L" + 50 ml | 20 x 50 ml, conical | 15'500 | PP | 1 | 10 |

# Cryo Tube 1.2 – 5 ml



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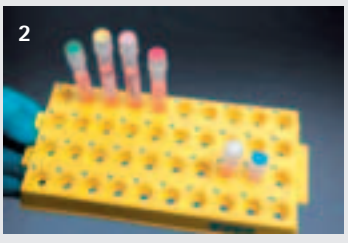
Features of **Cryo Tube:**

- Storage of samples in freezers or similar low-temperature equipment up to -196 °C
- External thread without silicone gasket
- Secure and tight closure of the tube
- Self standing on star-shaped foot
- One-handed operation with the use of the TPP cryogenic rack # 99016 with locking system in the grooves
- Color inserts for identification or coding
- Convenient, re-closable bag

Do not exceed the recommended maximum working volume.

TPP recommends using the cryo tubes for storage in the vapor-phase. If used in the liquid phase, nitrogen may penetrate into the tube and cause a build-up of pressure due to evaporation of nitrogen. This may lead to explosion of the tube and the release of bio hazardous material. Always use appropriate safety equipment and procedures.







1. Cryo box can be opened single handed
2. Cryo rack
3. Cryo tube with writing area and volume scale



Tube with external thread



Single handed operation possible with the cryo rack

Sealing lip in screw cap for secure closure = no fiddling with a silicone ring necessary

| Type | Product-No. | Volume max. ml | Volume recom. ml | Dimensions Ø x h mm | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|---|
| | 89012 | 0.9 | 0.7 | 12 x 37 | PP | 100 | 800 |
| | 89020 | 1.5 | 1.3 | 12 x 48 | PP | 100 | 800 |
| | 89040 | 3.5 | 3.3 | 12 x 75 | PP | 100 | 400 |
| | 89050 | 4.5 | 4.3 | 12 x 90 | PP | 100 | 400 |
| | 99014 | box "L", 81 x tubes | - | 133 x 133 x 95 | PP | 1 | 10 |
| | 99015 | box "S", 81 x tubes | - | 133 x 133 x 45 | PP | 1 | 20 |
| | 99016 | rack, 40 x tubes | - | 219 x 109 x 26 | PP | 1 | 12 |

**Color inserts for cryo tube caps are available in: white, blue, yellow, green, lilac, red**

| Type | Product-No. | Dimensions Ø x h mm | Color | Material | Qty/ Bag pcs | Qty/ Case pcs |
|---|---|---|---|---|---|---|
| | 99020 | 11 x 1 | 1 bag of each color | PP | 600 | 7800 |
| | 89801 | 11 x 1 | white | PP | 600 | 3600 |
| | 89802 | 11 x 1 | blue | PP | 600 | 3600 |
| | 89803 | 11 x 1 | yellow | PP | 600 | 3600 |
| | 89804 | 11 x 1 | green | PP | 600 | 3600 |
| | 89805 | 11 x 1 | pink | PP | 600 | 3600 |
| | 89806 | 11 x 1 | red | PP | 600 | 3600 |

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# Rack and Box




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Features of all **racks and boxes:**

- Alphanumerical inscription to identify your samples
- Heat resistant, autoclavable material
- Re-usable

**Rack "S" or "L"**

- Fits any 15 ml and 50 ml centrifuge tube
- Quickly assembled and disassembled
- Saves space if stored dismantled

**Rack for Tissue Culture Tubes**

- Fits tissue culture flat tubes 10 $cm^2$, tissue culture tubes 20 $cm^2$, centrifuge tubes 15 ml and 50 ml
- Transparent top
- Protection rim to protect shifting of tissue culture flat tubes 10

**Rack for TubeSpin® Bioreactor 450 / 600**

- Fits 3 x tubes
- Stackable
- Safe footprint

**Cryo Box "S" or "L"**

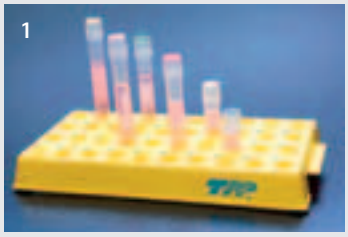
- Cryo box "S" fits 81 x cryo tubes 1.2 / 2 ml
- Cryo box "L" fits 81 x cryo tubes 4 / 5 ml
- Storage of samples at low temperatures up to -196 °C
- Form is stable even in lowest temperatures
- One-hand handling of the lid even after multiple usages

**Cryo Rack**

- Fits 40 x cryo tubes
- Ready-mounted rubber feet
- The locking system in the grooves allows one-hand operation when used with the star-shaped foot TPP cryo tubes

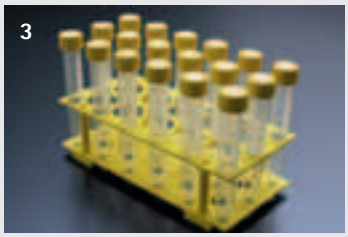


Details of click system













1. Cryo rack
2. Black alpha-numeric scale
3. Rack "S" filled with 15 ml tubes
4. Rack for Bioreactor 600 or 450

| Type | Product-No. | Capacity<br>pcs | Dimensions Ø x h<br>mm | Material | Qty/ Bag<br>pcs | Qty/ Case<br>pcs |
|---|---|---|---|---|---|---|
| | 99013 | bioreactor 3 x 450 / 600 ml | 366 x 146 x 70 | PP | 1 | 6 |
| | 99014 | cryo tubes 81 x 4 / 5 ml | 133 x 133 x 95 | PP | 1 | 10 |
| | 99015 | cryo tubes 81 x 1.2 / 2 ml | 133 x 133 x 45 | PP | 1 | 20 |
| | 99016 | cryo tubes 40 x with star foot | 219 x 109 x 26 | PP | 1 | 12 |
| | 99017 | centrifuge tubes 18 x 15 ml / 10 x 50 ml | 209 x 98 x 62 | PP | 1 | 45 |
| | 99018 | tissue culture tubes 8 x 10 $cm^2$ / 20 $cm^2$<br>centrifuge tubes 8 x 15 ml / 4 x 50 ml | 200 x 88 x 72 | PP | 1 | 28 |
| | 99019 | centrifuge tubes 30 x 15 ml / 20 x 50 ml | 209 x 172 x 62 | PP | 1 | 30 |

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# Quality Assurance

### Quality Management

TPP is ISO 9001:2015 certified. The quality standard is audited and confirmed by re-certification processes regularly. The certificate can be downloaded at www.tpp.ch.

### Quality Control: from Raw Material to the ready TPP Product

TPP provides its end users with the highest quality tissue culture plastics through the design and manufacturing processes. This intricate monitoring is possible with a complex quality assurance system. Products are dispatched only when all criteria is met. Therefore, TPP guarantees faultless and top-quality products for all areas of tissue culture and laboratory uses.

**Raw Material**
All incoming materials and products pass a rigorous and documented quality control based on specifications. Deliveries are accepted from checked vendors only.

**Production**
Production is in clean room environment on in-line production lines.

**Maintenance**
For a 24/7 manufacturing process the maintenance and servicing of the molding forms, production lines and infrastructures is extremely important. Competent specialists daily ensure the availability of the equipment.

**Quality Control**
All products are tested during and after the manufacturing process based on strict specifications. Each working step can be reviewed for years by a sophisticated IT system. Test results and corrective actions are documented.

**Dispatch Control**
We perform random examinations of the quality and quantity of the final product with documentation of the results. After release of the data a quality certificate can be generated on www.tpp.ch.

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| | | |
|---|---|---|
| STERILE R | **Sterile** | All TPP products are sterilized by radiation. Sterility is maintained as long as the packaging remains unopened and free from visible defect. TPP guarantees a "Sterility Assurance Level" (SAL) of $10^{-3}$. |
| | **EXP** | Products that are beyond their expiry date (EXP) can cause spurious results or errors. Such products should not be used. The shelf-life is 6 years. Thereafter TPP will no longer accept guarantee claims. |
| LOT | **LOT** | Each product packaging carries a very visible, black lot number. This batch identification number ensures traceability, analyses and monitoring of all data of raw material supply, processes, and quality control for several years. |
| | **Single Use** | All TPP products, except accessories such as racks etc., are intended for single use only. |
| | **Attention** | All products are solely intended for general laboratory use by competent staff. The products have not been registered for their direct use on humans. |
| | Certificates | Quality certificates from TPP can be generated online at www.tpp.ch. |

# Quality Standards

### Production

TPP products are manufactured in a clean room environment.

### Free from pyrogens and detectable endotoxins

Endotoxins represent pyrogens; fever-inducing substances usually derived from microorganisms, when present in sufficient quantity they can influence the growth and functionality of tissue cultures. All TPP products are tested systematically with the LAL test to prove the absence of endotoxins. The value of endotoxin is < 0.06 EU/ml. Exact data is available from quality certificates that can be generated on www.tpp.ch.

### Free from detectable RNA / DNA

RNA / DNA are genetic information carriers. Material that is contaminated with RNA / DNA can lead to false positive signals during PCR. They unintentionally amplify along with the desired template. Independent research laboratories periodically test and confirm that no foreign RNA / DNA is detectable with TPP products.

### Free from detectable RNase / DNase

RNases / DNases are enzymes that degrade RNA / DNA. They are components of each living cell and cannot be destroyed by the sterilization process. Independent research laboratories periodically test and confirm that no foreign RNase / DNase is detectable with TPP products.

### Sterility

Sterility describes the aseptic condition, i. e. the absence of living organisms. During the sterilization process transferable organisms such as funguses, bacteria or viruses are killed. TPP receives product sterility through a sterile production process followed by sterilization. TPP guarantees a "Sterility Assurance Level" (SAL) of $10^{-3}$. The sterility is validated conforming DIN EN ISO 11137.

### Growth treatment

To optimally enhance the adhesion of cells to the plastic surface, the growth areas of all TPP tissue culture vessels are activated by an optic-mechanic method, developed by TPP. The result is a plain and growth-enhancing surface that has optimal proliferation effects. TPP tissue culture products are tested lot-wise for their different tissue growth criteria.

### Free from cytotoxic substances

Cytotoxic substances are cell poisons that can weaken or even kill cells. All TPP tissue culture products are free from cytotoxic substances. TPP tests this regularly conforming to DIN EN ISO 10993-5 standards. California residents: go to www.tpp.ch for Resident 65 warning.

### Leaching

Leaching signifies the slow dissolving of compounds (leaching) from plastic ware into buffers and solvents. TPP avoids this by using ultrapure raw material conforming to Pharmacopoeia USP Class VI and certified free of chemical softeners and additives. TPP never processes recycled or potentially contaminated raw material. Additionally, TPP uses only optimized molds that work without any slip agents during the production process.

All information in this catalog is provided in good faith, without warranty of accuracy and completeness. We assume no liability for printing errors, mistakes, and product changes.

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# Raw Materials

TPP processes only the highest grades of raw materials. No stripping agents or softeners are employed.

TPP products are free from animal components and therefore free from TSE / BSE.

**Polyethylene (PE)**

| | |
|---|---|
| Heat Resistance | 70 - 80 °C / cannot be autoclaved |
| Low-Temperature Resistance | -40 °C |
| Optical Properties | Opaque |
| Mechanical Properties | Low tensile strength and surface hardness |

**Polypropylene (PP)**

| | |
|---|---|
| Heat Resistance | 100 - 120 °C / can be autoclaved |
| Low-Temperature Resistance | -190 °C |
| Optical Properties | Transparent, but not crystal clear |
| Mechanical Properties | High fracture strength, dimensionally stable, high stiffness |

**Polystyrene (PS)**

| | |
|---|---|
| Heat Resistance | 60 - 75 °C / cannot be autoclaved |
| Low-Temperature Resistance | -40 °C |
| Optical Properties | Crystal clear, shiny surface / 90 % transparency index (no transparence at < 330 nm, e. g. UV-light) |
| Mechanical Properties | Low fracture ductility, not suitable for use at high centrifugal loads |

**Disposal**

The materials are pure hydrocarbon compounds and therefore neutral to the environment. No harmful substances are generated during controlled burning.



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# Transportation and Storage

### Storage Recommendations

TPP recommends a careful storage of the fragile and breakable TPP products:

- Relative humidity of max. 50 - 60 %
- Temperature of 10 - 30 °C
- Do not expose to direct sunlight

### Jumbo Cases

The very stable jumbo cover cases give the highest protection during transportation and reduce potential damage to fragile tissue culture products. TPP recommends the use of protection cases when shipping goods through couriers with automatic distribution centers.

| Type of Case, Standard | L x W x H in mm |
|---|---|
| 1/1-case, brown | 390 x 330 x 460 |
| 1/2-case, brown | 390 x 330 x 230 |
| 1/4-case, brown | 390 x 330 x 110 |
| 1/4-dispenser, white | 390 x 330 x 110 |
| 1/16-case, brown | 390 x 165 x 55 |
| 1/4L-sample case, yellow | 390 x 165 x 230 |
| 1/8L-sample case, yellow | 390 x 165 x 110 |
| 1/16L-sample case, yellow | 390 x 165 x 55 |

| Type of Case, Cover Case | L x W x H in mm |
|---|---|
| Jumbo 1, cover case, yellow | 425 x 340 x 490, fits = 1 x 1/1-cases |
| Jumbo 2, cover case, yellow | 673 x 413 x 490, fits = 2 x 1/1-cases |
| Jumbo 1/2, cover case, yellow | 425 x 340 x 260, fits = 1 x 1/2-case |
| Jumbo 1/4, cover case, yellow | 400 x 330 x 140, fits = 1 x 1/4-case |

### Packaging

Modular TPP cases allow freedom of combination during stacking. The FSC certified cardboard comes from controlled sources. The one-way palettes conform to the international, phytosanitary directives (ISPM 15 standard).

### Icons displayed on the TPP cases



- Breakable



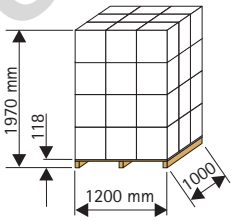
- Protect against humidity



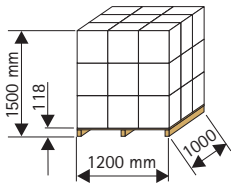
- Do not expose to direct sunlight



- Do not open with sharp instruments




Land / sea freight




Air freight

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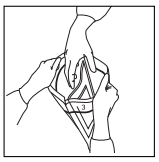




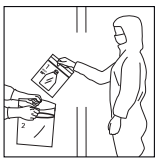

1. Stable Jumbo 1 cover case
2. TPP cases in modular system
3. Yellow sample case

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## 3-B TubeSpin® Bioreactor

| Type | Product-No. | Version | Volume | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | | ml | | pcs | pcs | Size | kg |
| | 387050 | conical | 50 | PP | 1 | 50 | 1/2 | 1.7 |
| | 387600 | conical | 600 | PP | 1 | 10 | 1/2 | 2.0 |

## 3-B Cryo Tube

| Type | Product-No. | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|
| | | | pcs | pcs | Size | kg |
| | 389012 | PP | 25 | 500 | 1/4 | 1.7 |
| | 389020 | PP | 25 | 500 | 1/4 | 1.7 |
| | 389050 | PP | 25 | 300 | 1/4 | 1.6 |

## 3-B Tissue Culture Flask and additional Caps

| Type | Product-No. | Growth Area | Version | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | | | pcs | pcs | Size | kg |
| | 390025 | 25 | VENT | PS | 1 | 28 | 1/2 | 1.3 |
| | 390026 | 25 | filter | PS | 1 | 28 | 1/2 | 1.3 |
| | 390028 | 25 | peel-off | PS | 1 | 28 | 1/2 | 1.3 |
| | 390075 | 75 | VENT | PS | 1 | 20 | 1/2 | 1.9 |
| | 390076 | 75 | filter | PS | 1 | 20 | 1/2 | 1.9 |
| | 390150 | 150 | VENT | PS | 1 | 20 | 1/1 | 3.5 |
| | 390151 | 150 | filter | PS | 1 | 20 | 1/1 | 3.5 |
| | 390153 | 150 | peel-off | PS | 1 | 20 | 1/1 | 3.5 |
| | 390301 | 300 | filter | PS | 1 | 12 | 1/1 | 3.7 |
| | 390552 | 150 | lid | PS | 1 | 20 | 1/1 | 3.3 |
| | 390652 | 115 | lid, barrier | PS | 1 | 20 | 1/1 | 3.3 |
| | 390850 | | VENT | PE | 1 | 30 | 1/4 | 0.9 |
| | 390856 | | filter | PE | 1 | 30 | 1/4 | 0.9 |

## 3-B Centrifuge Tube

| Type | Product-No. | Volume | Version | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | ml | | | pcs | pcs | Size | kg |
| | 391015 | 15 | conical | PP | 40 | 800 | 1/2 | 2.2 |
| | 391016 | 13 | round, short | PP | 40 | 800 | 1/2 | 2.2 |
| | 391050 | 50 | conical | PP | 20 | 360 | 1/2 | 1.7 |
| | 391051 | 50 | conical, self-standing | PP | 20 | 320 | 1/2 | 1.7 |
| | 391115 | 15 | conical | PS | 40 | 800 | 1/2 | 2.1 |

## 3-B Tissue Culture Tube

| Type | Product-No. | Growth Area | Version | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | | | pcs | pcs | Size | kg |
| | 391106 | 20 | VENT | PS | 1 | 100 | 1/2 | 2.1 |
| | 391243 | 10 | filter | PS | 1 | 50 | 1/2 | 1.9 |

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## 3-B Tissue Culture Test Plate

| Type | Product-No. | Number Wells | Growth Area | Version | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | pcs | $cm^2$ | | | pcs | pcs | Size | kg |
| | 392006 | 6 | 9.026 | F | PS | 1 | 36 | 1/2 | 3.1 |
| | 392012 | 12 | 3.464 | F | PS | 1 | 36 | 1/2 | 3.2 |
| | 392024 | 24 | 1.863 | F | PS | 1 | 36 | 1/2 | 3.5 |
| | 392048 | 48 | 0.882 | F | PS | 1 | 36 | 1/2 | 3.6 |
| | 392096 | 96 | 0.342 | F | PS | 1 | 50 | 1/2 | 4.4 |
| | 392097 | 96 | 0.965 | U | PS | 1 | 50 | 1/2 | 4.4 |

## 3-B Tissue Culture Dish

| Type | Product-No. | Growth Area | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|
| | | $cm^2$ | | pcs | pcs | Size | kg |
| | 393040 | 9.2 | PS | 1 | 60 | 1/4 | 0.9 |
| | 393060 | 22.1 | PS | 1 | 48 | 1/4 | 1.2 |
| | 393100 | 60.0 | PS | 1 | 54 | 1/2 | 2.8 |
| | 393150 | 147.0 | PS | 1 | 28 | 1/2 | 2.6 |

## 3-B Serological Pipette with Reservoir

| Type | Product-No. | Volume | Reservoir | Color | Material | Packaging | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | ml | | | | pcs | Size | kg |
| | 394525 | 25 | 15 | red | PS | plastic / plastic | 36 | 1/4 | 1.3 |
| | 394550 | 50 | 20 | purple | PS | plastic / plastic | 36 | 1/4 | 1.6 |

## 3-B Vacuum Filtration "rapid"-Filtermax

| Type | Product-No. | Filtration Area | Volume | Pore Size | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | ml | µm | | pcs | pcs | Size | kg |
| | 399157 | - | 150 | - | PS | 1 | 12 | 1/2 | 1.8 |
| | 399257 | - | 250 | - | PS | 1 | 12 | 1/2 | 1.8 |
| | 399500 | 49 | 500 | 0.22 | PS / PES | 1 | 8 | 1/2 | 2.5 |
| | 399507 | - | 500 | - | PS | 1 | 12 | 1/2 | 2.3 |
| | 399950 | 69 | 1000 | 0.22 | PS / PES | 1 | 6 | 1/2 | 2.9 |
| | 399957 | - | 1000 | - | PS | 1 | 6 | 1/2 | 2.4 |

## 3-B Cell Scraper

| Type | Product-No. | Version | Blade Width | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | | mm | | pcs | pcs | Size | kg |
| | 399002 | scraper "S", rotating | 13 | PE | 1 | 40 | 1/4 | 0.9 |
| | 399003 | scraper "M", rotating | 20 | PE | 1 | 40 | 1/4 | 0.9 |

## 3-B Syringe Filter

| Type | Product-No. | Filtration Area | Pore Size | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | $cm^2$ | µm | | pcs | pcs | Size | kg |
| | 399722 | 6 | 0.22 | PES | 1 | 100 | 1/4 | 1.2 |
| | 399745 | 6 | 0.45 | PES | 1 | 100 | 1/4 | 1.2 |

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## Page 8 Tissue Culture Flask 25 - 300 cm²



| Type | Product-No. | Growth Area cm² | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 90025 | 25 | VENT | PS | 10 | 360 | 1/1 | 6.5 |
| | 90026 | 25 | filter | PS | 10 | 360 | 1/1 | 6.5 |
| | 90075 | 75 | VENT | PS | 5 | 100 | 1/1 | 6.0 |
| | 90076 | 75 | filter | PS | 5 | 100 | 1/1 | 6.0 |
| | 90150 | 150 | VENT | PS | 3 | 36 | 1/1 | 5.0 |
| | 90151 | 150 | filter | PS | 3 | 36 | 1/1 | 5.0 |
| | 90300 | 300 | VENT | PS | 3 | 18 | 1/1 | 4.5 |
| | 90301 | 300 | filter | PS | 3 | 18 | 1/1 | 4.5 |

## Page 9 VENT or Filter Screw Cap



| Type | Product-No. | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|
| | 90825 | VENT for T-25 | PE | 10 | 40 | 1/16 | 0.3 |
| | 90826 | filter for T-25 | PE | 10 | 40 | 1/16 | 0.3 |
| | 90850 | VENT for T-150 / 300 | PE | 10 | 40 | 1/16 | 0.3 |
| | 90856 | filter for T-150 / 300 | PE | 10 | 40 | 1/16 | 0.3 |
| | 90875 | VENT for T-75 | PE | 10 | 40 | 1/16 | 0.3 |
| | 90876 | filter for T-75 | PE | 10 | 40 | 1/16 | 0.3 |

## Page 10 Tissue Culture Flask with Re-Closable Lid 115 - 150 cm²



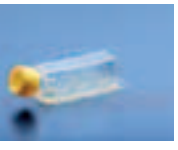
| Type | Product-No. | Growth Area cm² | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 90552 | 150 | lid | PS | 3 | 18 | 1/2 | 3.0 |
| | 90652 | 115 | lid, barrier | PS | 3 | 18 | 1/2 | 3.0 |

## Page 11 Tissue Culture Flask 25 - 300 cm² with Peel-Off Foil



| Type | Product-No. | Growth Area cm² | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 90028 | 25 | peel-off | PS | 5 | 70 | 1/4 | 1.3 |
| | 90078 | 75 | peel-off | PS | 2 | 32 | 1/2 | 1.9 |
| | 90153 | 150 | peel-off | PS | 3 | 18 | 1/2 | 2.2 |
| | 90303 | 300 | peel-off | PS | 2 | 8 | 1/2 | 1.9 |
| | 90653 | 115 | peel-off, barrier | PS | 3 | 18 | 1/2 | 2.3 |

## Page 12 Clipmax 10 cm²



| Type | Product-No. | Growth Area cm² | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 70010 | 10 | filter, clip | PS / COP | 1 | 5 | 1/16 | 0.8 |

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## Slidemax 1-8 well

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| Type | Product-No. | Growth Area cm² | Version | Material | Qty/Bag pcs | Qty/Case pcs | Case Size | Weight/Case kg |
|---|---|---|---|---|---|---|---|---|
| | 71011 | 1 x 10.2 | 1 Well | PS/COP | 1 | 5 | 1/16 | 0,8 |
| | 71012 | 2 x 4.85 | 2 Well | PS/COP | 1 | 5 | 1/16 | 0,8 |
| | 71014 | 4 x 2.22 | 4 Well | PS/COP | 1 | 5 | 1/16 | 0,8 |
| | 71016 | 6 x 1.31 | 6 Well | PS/COP | 1 | 5 | 1/16 | 0,8 |
| | 71018 | 8 x 0.94 | 8 Well | PS/COP | 1 | 5 | 1/16 | 0,8 |

## Tissue Culture Flat Tube 10 cm² and Tissue Culture Tube 20 cm²

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| Type | Product-No. | Growth Area cm² | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 91106 | 20 | VENT | PS | 20 | 800 | 1/1 | 8.1 |
| | 91243 | 10 | filter | PS | 4 | 216 | 1/1 | 7.9 |
| | 99018 | - | rack | PP | 1 | 28 | 1/2 | 3.1 |

## Cell Scraper and Cell Spatula

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| Type | Product-No. | Version | Blade Width mm | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 99002 | scraper "S", rotating | 13 | PE | 1 | 150 | 1/4 | 1.7 |
| | 99003 | scraper "M", rotating | 20 | PE | 1 | 150 | 1/4 | 2.0 |
| | 99004 | scraper "L", rotating | 25 | PE | 1 | 100 | 1/4 | 2.0 |
| | 99010 | spatula, fix | 14 | PP | 1 | 150 | 1/4 | 1.4 |

## TubeSpin® Bioreactor 15 - 600 ml

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| Type | Product-No. | Version | Volume ml | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 87015 | conical | 15 | PP | 40 | 800 | 1/1 | 8.1 |
| | 87017 | round | 15 | PP | 40 | 800 | 1/1 | 8.1 |
| | 87050 | conical | 50 | PP | 20 | 180 | 1/2 | 3.2 |
| | 87056 | round | 50 | PP | 20 | 180 | 1/2 | 3.2 |
| | 87450 | conical | 450 | PP | 1 | 32 | 1/1 | 3.6 |
| | 87600 | conical | 600 | PP | 1 | 26 | 1/1 | 3.6 |

## Racks and Consumables for TubeSpin® Bioreactor

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| Type | Product-No. | Version | Capacity pcs | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 87355 | filter screw cap for 450 / 600 | - | PE | 1 | 20 | 1/16 | 0.6 |
| | 87356 | screw cap "solid" for 450 / 600 | - | PE | 1 | 20 | 1/16 | 0.6 |
| | 99013 | rack for 87450 / 87600 | 3 x 450 ml / 600 ml | PP | 1 | 6 | 1/2 | 2.5 |
| | 99017 | rack "S" for 87015 / 87017 / 87050 | 18 x 15 ml / 10 x 50 ml | PP | 1 | 45 | 1/2 | 4.6 |

## TubeSpin® Bioreactor 50 with Septum

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| Type | Product-No. | Version | Volume ml | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 86050 | conical, septum, barcode | 50 | PP | 20 | 180 | 1/2 | 3.2 |

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## Page 21 Shaker Tray for TubeSpin® Bioreactor 50 – 600 ml



| Type | Product-No. | Version | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|
| | | | | pcs | pcs | Size | kg |
| | 87414 | Kuhner tray 162, bioreactor 50 | Alu / PA | 1 | 1 | spec. | 11.0 |
| | 87411 | Kuhner tray 32, bioreactor 450 | Alu | 1 | 1 | spec. | 11.0 |
| | 87412 | Kuhner tray 20, bioreactor 450 | Alu | 1 | 1 | spec. | 6.0 |
| | 87413 | Kuhner tray 16, bioreactor 450 | Alu | 1 | 1 | spec. | 5.0 |
| | 87431 | Infors Multitron tray 32, bioreactor 450 | Alu | 1 | 1 | spec. | 11.0 |
| | 87433 | Infors Minitron tray 16, bioreactor 450 | Alu | 1 | 1 | spec.. | 5.0 |
| | 87611 | Kuhner tray 32, bioreactor 600 | Alu | 1 | 1 | spec. | 11.0 |
| | 87612 | Kuhner tray 20, bioreactor 600 | Alu | 1 | 1 | spec. | 6.0 |
| | 87613 | Kuhner tray 16, bioreactor 600 | Alu | 1 | 1 | spec. | 5.0 |
| | 87631 | Infors Multitron tray 32, bioreactor 600 | Alu | 1 | 1 | spec. | 11.0 |
| | 87633 | Infors Minitron tray 16, bioreactor 600 | Alu | 1 | 1 | spec. | 5.0 |

## Page 22 Packed Cell Volume Tube (PCV)



| Type | Product-No. | Version | Volume | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | | ml | | pcs | pcs | Size | kg |
| | 87005 | with volume scale | 1 | PS | 50 | 250 | 1/4 | 0.6 |
| | 87007 | neutral | 1 | PS | 50 | 150 | 1/16 | 0.3 |
| | 87008 | cap for PCV | | PE | 50 | 150 | 1/16 | 0.2 |

## Page 23 "easy read" Measuring Device



| Type | Product-No. | Version | Volume | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | | µl | | pcs | pcs | Size | kg |
| | 87010 | "easy read" measuring device | 0-5 | Alu | 1 | 1 | 1/16 | 0.4 |

## Page 25 Serological Pipette with Reservoir 5 – 70 ml with Paper / Plastic Blister



| Type | Product-No. | Volume | Reservoir | Color | Material | Packaging | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | ml | | | | pcs | Size | kg |
| | 94504 | 5 | 3.5 | blue | PS | paper / plastic | | 1/4 | |
| | 94505 | 5 | 4 | blue | PS | paper / plastic | | 1/4 | |
| | 94509 | 10 | 5.5 | orange | PS | paper / plastic | | 1/4 | |
| | 94510 | 10 | 7 | orange | PS | paper / plastic | | 1/4 | |
| | 94525 | 25 | 15 | red | PS | paper / plastic | 60 | 1/4 | 1.5 |
| | 94550 | 50 | 20 | purple | PS | paper / plastic | 50 | 1/4 | 1.5 |

## Page 25 Serological Pipette with Reservoir 5 – 70 ml with Plastic / Plastic Blister



| Type | Product-No. | Volume | Reservoir | Color | Material | Packaging | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | ml | | | | pcs | Size | kg |
| | 95504 | 5 | 3.5 | blue | PS | plastic / plastic | | 1/4 | |
| | 95505 | 5 | 4 | blue | PS | plastic / plastic | | 1/4 | |
| | 95509 | 10 | 5.5 | orange | PS | plastic / plastic | | 1/4 | |
| | 95510 | 10 | 7 | orange | PS | plastic / plastic | | 1/4 | |
| | 95525 | 25 | 15 | red | PS | plastic / plastic | 60 | 1/4 | 1.5 |
| | 95550 | 50 | 20 | purple | PS | plastic / plastic | 50 | 1/4 | 1.5 |

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## Turbo-Fix Pipette Aid

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| Type | Product-No. | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|
| | 94700 | type C: adapter for EU | PA / POM | 1 | 1 | 1/4 | 1.6 |
| | 94701 | type A, adapter for China / USA / Japan | PA / POM | 1 | 1 | 1/4 | 1.6 |
| | 94702 | type G: adapter for UK | PA / POM | 1 | 1 | 1/4 | 1.6 |
| | 94703 | type I: adapter for AUS | PA / POM | 1 | 1 | 1/4 | 1.6 |

## Turbo-Fix Consumables

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| Type | Product-No. | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|
| | 94750 | Stabifix nose piece, set | var. | 1 | 1 | spec. | spec. |
| | 94751 | wall mount | PE | 1 | 1 | spec. | spec. |
| | 94763 | replacement filter, 0.45 µm, blue | var. | 1 | 5 | spec. | spec. |
| | 94764 | replacement filter, 0.22 µm, red | var. | 1 | 5 | spec. | spec. |
| | 94754 | pipette mount in Stabifix | silicone | 1 | 1 | spec. | spec. |
| | 94755 | filter rubber in Stabifix | silicone | 1 | 1 | spec. | spec. |
| | 94757 | battery compartment lid | PA | 1 | 1 | spec. | spec. |
| | 94758 | housing | PA | 1 | 1 | spec. | spec. |
| | 94760 | mains adapter type C for EU | var. | 1 | 1 | spec. | spec. |
| | 94761 | mains adapter type A for China / USA / Japan | var. | 1 | 1 | spec. | spec. |
| | 94762 | mains adapter type G for UK | var. | 1 | 1 | spec. | spec. |
| | 94763 | mains adapter type I for AUS | var. | 1 | 1 | spec. | spec. |

## Tissue Culture Test Plate 6 - 96 wells

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| Type | Product-No. | Number Wells pcs | Growth Area $cm^2$ | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|---|
| | 92006 | 6 | 9.026 | F | PS | 1 | 126 | 1/1 | 8.3 |
| | 92012 | 12 | 3.464 | F | PS | 1 | 126 | 1/1 | 9.1 |
| | 92024 | 24 | 1.863 | F | PS | 1 | 126 | 1/1 | 10.0 |
| | 92048 | 48 | 0.882 | F | PS | 1 | 126 | 1/1 | 10.0 |
| | 92096 | 96 | 0.342 | F | PS | 1 | 162 | 1/1 | 11.7 |
| | 92097 | 96 | 0.965 | U | PS | 1 | 162 | 1/1 | 11.9 |
| | 92406 | 6 | 9.026 | F | PS | 4 | 72 | 1/2 | 4.8 |
| | 92412 | 12 | 3.464 | F | PS | 4 | 72 | 1/2 | 5.1 |
| | 92424 | 24 | 1.863 | F | PS | 4 | 72 | 1/2 | 5.6 |
| | 92448 | 48 | 0.882 | F | PS | 4 | 72 | 1/2 | 5.6 |
| | 92696 | 96 | 0.342 | F | PS | 6 | 108 | 1/2 | 7.5 |
| | 92697 | 96 | 0.965 | U | PS | 6 | 108 | 1/2 | 7.6 |

## Tissue Culture Test Plate 6 - 96 wells, single wrapped, small packaging unit

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| Type | Product-No. | Number Wells pcs | Growth Area $cm^2$ | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|---|
| | 92106 | 6 | 9.026 | F | PS | 1 | 42 | 1/2 | 3.5 |
| | 92112 | 12 | 3.464 | F | PS | 1 | 42 | 1/2 | 3.5 |
| | 92124 | 24 | 1.863 | F | PS | 1 | 42 | 1/2 | 3.5 |
| | 92148 | 48 | 0.882 | F | PS | 1 | 42 | 1/2 | 3.5 |
| | 92196 | 96 | 0.342 | F | PS | 1 | 54 | 1/2 | 3.5 |
| | 92197 | 96 | 0.965 | U | PS | 1 | 54 | 1/2 | 3.5 |

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## Page 30 Tissue Culture Dish 40 - 150 cm²



| Type | Product-No. | Growth Area cm² | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|
| | 93040 | 9.2 | PS | 20 | 900 | 1/2 | 4.0 |
| | 93060 | 22.1 | PS | 14 | 840 | 1/1 | 8.2 |
| | 93100 | 60.0 | PS | 10 | 240 | 1/1 | 6.7 |
| | 93150 | 147.0 | PS | 5 | 100 | 1/1 | 6.6 |

## Page 32 Vacuum Filtration "rapid"-Filtermax 150 - 1000 ml



| Type | Product-No. | Filtration Area cm² | Volume ml | Pore Size µm | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|---|
| | 99150 | 49 | 150 | 0.22 | PS / PES | 1 | 18 | 1/2 | 3.2 |
| | 99155 | 49 | 150 | 0.22 | PS / PES | 1 | 36 | 1/2 | 3.0 |
| | 99157 | - | 150 | - | PS | 1 | 24 | 1/2 | 2.6 |
| | 99250 | 49 | 250 | 0.22 | PS / PES | 1 | 12 | 1/2 | 2.7 |
| | 99255 | 49 | 250 | 0.22 | PS / PES | 1 | 24 | 1/2 | 2.4 |
| | 99257 | - | 250 | - | PS | 1 | 24 | 1/2 | 3.1 |
| | 99500 | 49 | 500 | 0.22 | PS / PES | 1 | 10 | 1/2 | 2.7 |
| | 99505 | 49 | 500 | 0.22 | PS / PES | 1 | 21 | 1/2 | 2.5 |
| | 99507 | - | 500 | - | PS | 1 | 36 | 1/1 | 6.0 |
| | 99560 | 49 | 500 | 0.1 | PS / PES | 1 | 10 | 1/2 | 2.7 |
| | 99950 | 69 | 1000 | 0.22 | PS / PES | 1 | 9 | 1/1 | 4.5 |
| | 99955 | 69 | 1000 | 0.22 | PS / PES | 1 | 12 | 1/2 | 1.7 |
| | 99957 | - | 1000 | - | PS | 1 | 20 | 1/1 | 5.6 |
| | 99960 | 69 | 1000 | 0.1 | PS / PES | 1 | 9 | 1/1 | 4.5 |

## Page 33 Syringe Filter 0.22 µm and 0.45 µm



| Type | Product-No. | Filtration Area cm² | Pore Size µm | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 99722 | 6 | 0.22 | PET | 1 | 200 | 1/4 (5 x box) | 1.8 |
| | 99745 | 6 | 0.45 | PET | 1 | 200 | 1/4 (5 x box) | 1.8 |

## Page 34 Centrifuge Tube 13 - 50 ml



| Type | Product-No. | Volume ml | Version | Material | Qty/ Bag pcs | Qty/ Case pcs | Case Size | Weight/ Case kg |
|---|---|---|---|---|---|---|---|---|
| | 91015 | 15 | conical | PP | 40 | 800 | 1/1 | 6.5 |
| | 91016 | 13 | round, short | PP | 40 | 800 | 1/1 | 6.6 |
| | 91017 | 15 | round, long | PP | 40 | 800 | 1/1 | 6.6 |
| | 91019 | 13 | flat | PP | 40 | 800 | 1/1 | 6.2 |
| | 91050 | 50 | conical | PP | 20 | 360 | 1/1 | 6.0 |
| | 91051 | 50 | conical, self-standing | PP | 20 | 320 | 1/1 | 6.0 |
| | 91056 | 50 | round | PP | 20 | 360 | 1/1 | 6.0 |
| | 91115 | 15 | conical | PS | 40 | 800 | 1/1 | 7.4 |
| | 99017 | | rack "S" | PP | 1 | 45 | 1/2 | 4.6 |
| | 99019 | | rack "L" | PP | 1 | 30 | 1/2 | 5.0 |

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## Centrifuge tube 15 ml / 50 ml, small unit packaging

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| Type | Product-No. | Volume | Version | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|
| | | ml | | | pcs | pcs | Size | kg |
| | 91014 | 15 | conical | PP | 40 | 360 | 1/2 | 4.0 |
| | 91054 | 50 | conical | PP | 20 | 160 | 1/2 | 3.0 |

## Rack filled with Centrifuge Tubes 15 ml or 50 ml

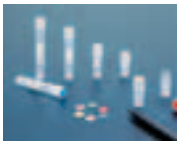
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| Type | Product-No. | Volume | Version | Capacity | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|---|---|
| | | ml | | pcs | | pcs | pcs | Size | kg |
| | 91515 | 15 | rack "L" + 15 ml | 30 x 15 ml, conical | PP | 1 | 10 | 1/1 | 4.5 |
| | 91550 | 50 | rack "L" + 50 ml | 20 x 50 ml, conical | PP | 1 | 10 | 1/1 | 5.2 |

## Cryo Tube 1.2 - 5 ml

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| Type | Product-No. | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|
| | | | pcs | pcs | Size | kg |
| | 89012 | PP | 100 | 800 | 1/4 | 1.7 |
| | 89020 | PP | 100 | 800 | 1/4 | 2.0 |
| | 89040 | PP | 100 | 400 | 1/4 | 1.6 |
| | 89050 | PP | 100 | 400 | 1/4 | 1.8 |
| | 99014 | PP | 1 | 10 | 1/2 | 2.7 |
| | 99015 | PP | 1 | 20 | 1/2 | 3.8 |
| | 99016 | PP | 1 | 12 | 1/4 | 1.8 |

## Insert for Cryo Tubes

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| Type | Product-No. | Color | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|
| | | | | pcs | pcs | Size | kg |
| | 99020 | 1 bag of each color | PP | 600 | 7800 | 1/4 | 1.3 |
| | 89801 | white | PP | 600 | 3600 | 1/16 | 0.6 |
| | 89802 | blue | PP | 600 | 3600 | 1/16 | 0.6 |
| | 89803 | yellow | PP | 600 | 3600 | 1/16 | 0.6 |
| | 89804 | green | PP | 600 | 3600 | 1/16 | 0.6 |
| | 89805 | pink | PP | 600 | 3600 | 1/16 | 0.6 |
| | 89806 | red | PP | 600 | 3600 | 1/16 | 0.6 |

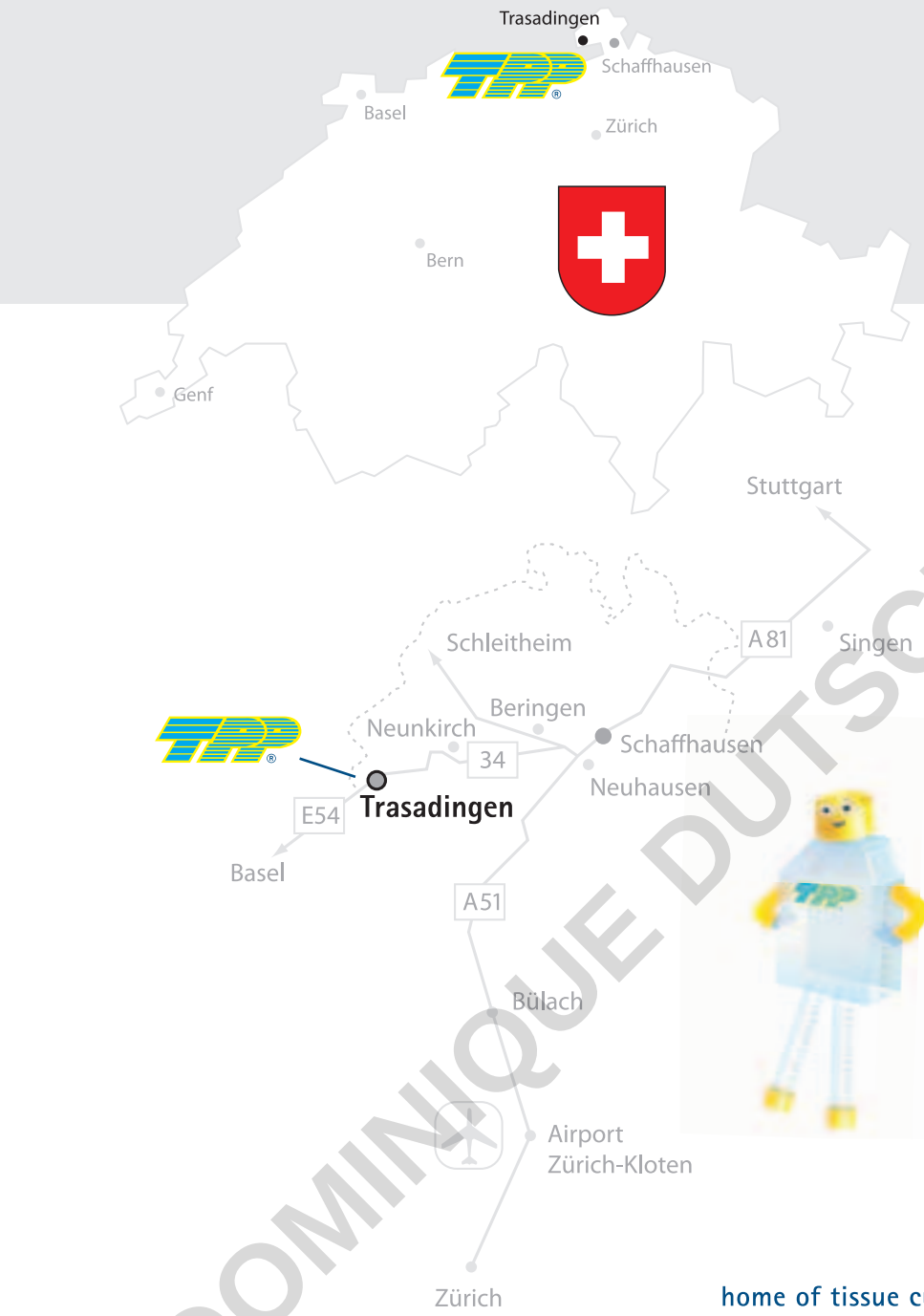
## Rack and Box

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| Type | Product-No. | Capacity | Material | Qty/ Bag | Qty/ Case | Case | Weight/ Case |
|---|---|---|---|---|---|---|---|
| | | pcs | | pcs | pcs | Size | kg |
| | 99013 | bioreactor 3 x 450 / 600 ml | PP | 1 | 6 | 1/2 | 2.5 |
| | 99014 | cryo tubes 81 x 4 / 5 ml | PP | 1 | 10 | 1/2 | 2.7 |
| | 99015 | cryo tubes 81 x 1.2 / 2 ml | PP | 1 | 20 | 1/2 | 3.8 |
| | 99016 | cryo tubes 40 x with star foot | PP | 1 | 12 | 1/4 | 1.8 |
| | 99017 | centrifuge tubes 18 x 15 ml / 10 x 50 ml | PP | 1 | 45 | 1/2 | 4.6 |
| | 99018 | tissue culture tubes 8 x 10 $cm^2$ / 20 $cm^2$ centrifuge tubes 8 x 15 ml / 4 x 50 ml | PP | 1 | 28 | 1/2 | 3.1 |
| | 99019 | centrifuge tubes 30 x 15 ml / 20 x 50 ml | PP | 1 | 30 | 1/2 | 5.0 |

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Version 2026-EN-1