TPP® & MIDSCI™

Tissue and cell culture.
Quality. Ease of Use.
Reproducibility.
Innovative.

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Table of Contents

TISSUE CULTURE:

Consistency and Quality are Key.

CULTURE FLASKS

TPP® Tissue Culture Flasks

Available in 25, 75, 150 and 300 cm^2.

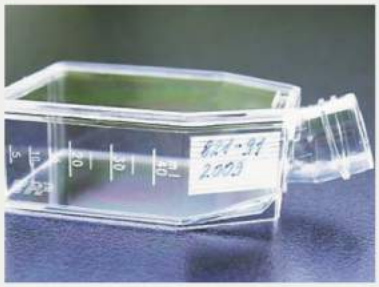
INNOVATIVE FEATURES AND OUTSTANDING CELL GROWTH PROPERTIES.

The optic-mechanically activated growth area offers optimal cell adhesion and proliferation.

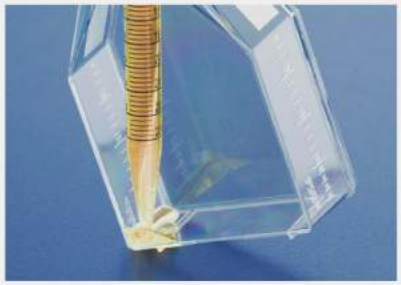
Advantages:

- Uniform flat surface promotes cell growth without clumping.
- Crystal clear transparency for imaging.
- Lifted base for uniform temperature and CO_2 distribution.
- Neck design reduces risk of media spill out.
- Highly visible bilateral marking areas.
- White graduations on both sides.

Surface Area	Item #	Description	Quantity
25 cm^2	TP90025	Vented Cap	10/bag, 360/cs
	TP90026	Filter Cap w/ 0.22µM PTFE membrane	10/bag, 360/cs
75 cm^2	TP90075	Vented Cap	5/bag, 100/cs
	TP90076	Filter Cap w/ 0.22µM PTFE membrane	5/bag, 100/cs
150 cm^2	TP90150	Vented Cap	3/bag, 36/cs
	TP90151	Filter Cap w/ 0.22µM PTFE membrane	3/bag, 36/cs
300 cm^2	TP90300	Vented Cap	3/bag, 18/cs
	TP90301	Filter Cap w/ 0.22µM PTFE membrane	3/bag, 18/cs



Angled neck and white markings.



100% cell retrieval.

Stable stacking of flasks.

"Because CONSISTENCY begins upstream."

SWISS DESIGN

Features that deliver performance.

CULTURE DISHES

TPP® Tissue Culture Dishes

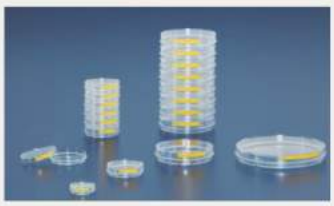
Available in 40mm, 60mm, 100mm, and 150mm.

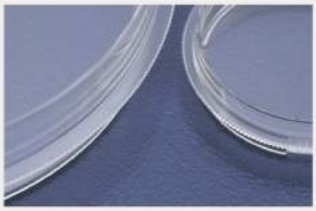
DELIVERING STABLE STACKING AND IMPECCABLE OPTICAL CLARITY!

Advantages:

- Poker chip edge makes gripping easier.
- Vents on bottom allow for air exchange and even temperatures in a stack.
- Vents also allow for secure stacking.
- Extreme optical clarity.
- Highest quality virgin polystyrene.
- Yellow labeling area for easy identification.
- Numeric clock orientation markings.
- Sterile, certified nuclease, nucleic acid, and non-pyrogenic .

Size	Item #	Description	Quantity
40 mm	TP93040	40 mm TC Dish (9.2 cm^2 growth surface)	900/cs
60 mm	TP93060	60mm TC Dish (22.1 cm^2 growth surface)	840/cs
100 mm	TP93100	100 mm TC Dish (60.1 cm^2 growth surface)	240/cs
150 mm	TP93150	150 mm TC Dish (147.8 cm^2 growth surface)	100/cs





"Never drop a dish again."

SWISS DESIGN

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Consistent Air Flow.
EVERY well used.

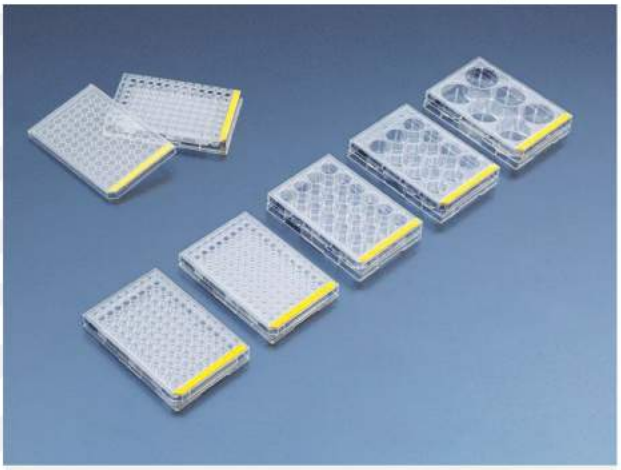
TPP® Plates

Air vents in the base allow for consistent air flow between plates ensuring even temperature distribution, condensation prevention, lower evaporation, and greater well to well consistency.

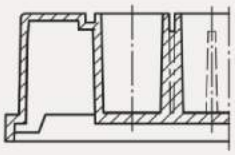
Advantages:

- Absolutely flat growth surface promotes uniform cell growth without clumping leading to happier and healthier cells.
- Treated only on well bottoms to promote cell attachment and proliferation.
- Yellow marking area on lid and plate ensure correct lid orientation and effective labeling.
- Crystal clear transparency allows for high quality microscopy images without transferring to a slide.
- Easy to read alpha-numerical labeling between wells.

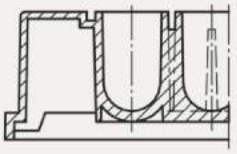
Available as 6, 12, 24, 48, and 96-well plates.



96 well plates with 2 geometries: F and U-bottom



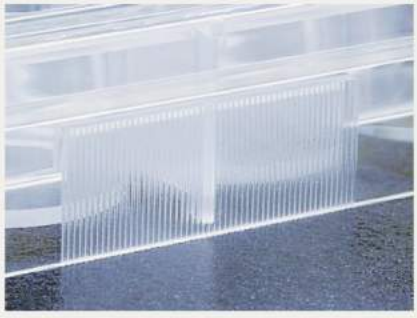
F-base: for microscopy



U-base: for agglutination

Excellent stacking.

Black alphanumerical labeling.



Gripping edges.

Optimal gas exchange with lowest evaporation.

TPP® Plates

Now also available with 48 wells!

Additional Advantages:

- Manufactured meeting the standards ANSI/SLAS 1-2004 through ANSI/SLAS 4-2004
- The 96 well is standardized with an interleaved barcode 2/5
- Low evaporation means you can utilize EVERY well
- Plate lids have anti-contamination rings that line up with the top of each well
- Sterile, packaged individually or in convenient multipacks
- Certified DNAse/RNAse free, nucleic acid free, and non-pyrogenic

	Item#	Description	Quantity
Individually packed	TP92006	TPP Plate, 6-well Flat	1/bag, 126/cs
	TP92012	TPP Plate, 12-well Flat	1/bag, 126/cs
	TP92024	TPP Tissue Culture Plate, 24-well Flat Bottom	1/bag, 126/cs
	TP92048	TPP Plate, 48-well Flat	1/bag, 126/cs
	TP92096	TPP Tissue Culture Plate, 96-well Flat Bottom	1/bag, 162/cs
	TP92097	TPP Plate, 96-well Round	1/bag, 162/cs
Multi Pack	TP92406	TPP Tissue Culture Plate, 6-well Flat	4/bag, 72/cs
	TP92412	TPP Plate, 12-well Flat	4/bag, 72/cs
	TP92424	TPP Tissue Culture Plate, 24-well Flat Bottom	4/bag, 72/cs
	TP92448	TPP Plate, 48-well Flat	4/pk, 72/cs
	TP92696	TPP Plate, 96-well Flat	6/bag, 108/cs
	TP92697	TPP Plate, 96-well Round	6/bag, 108/cs

Clear labeling between wells.

Yellow inscription field.

"The more used WELLS, the more CELLS."

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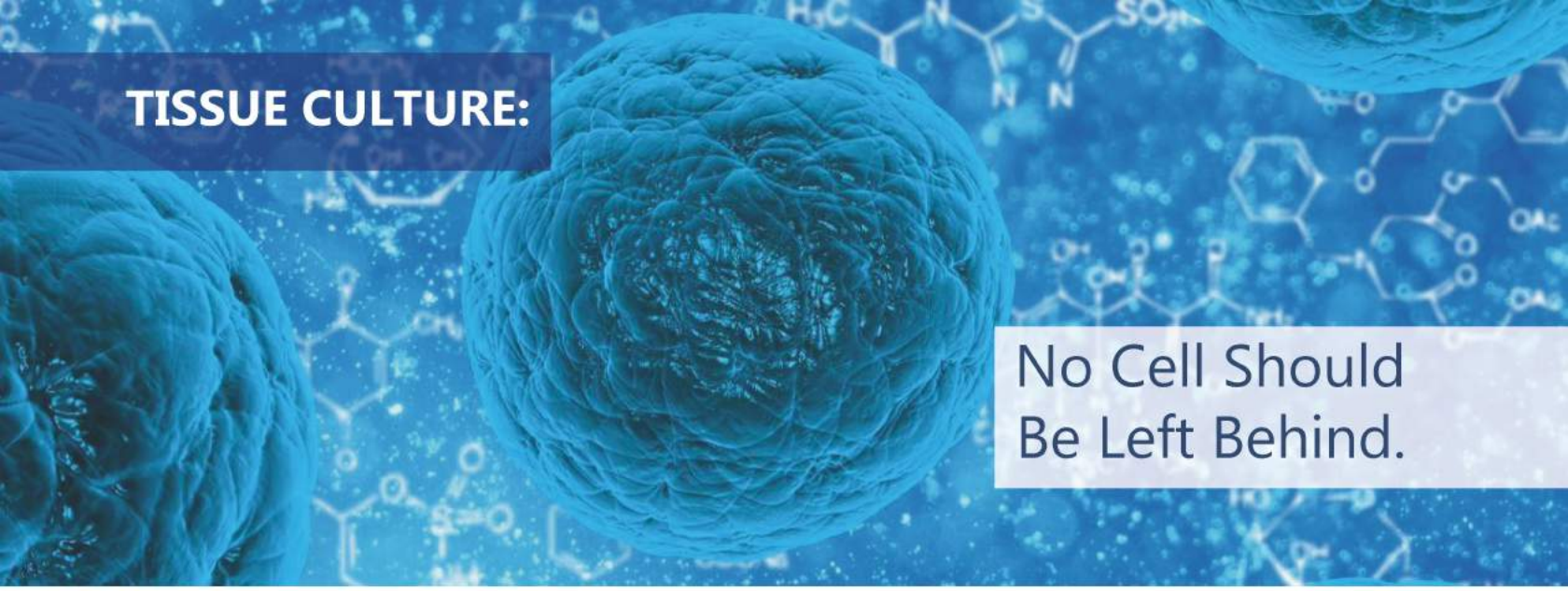


No Cell Should
Be Left Behind.

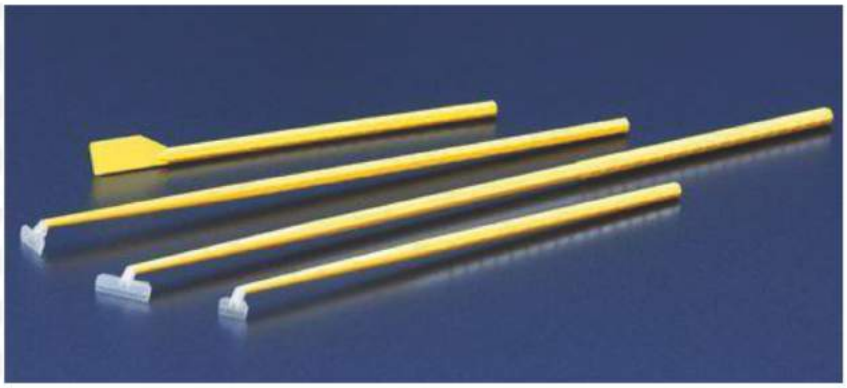
TPP Scraper

The unique 360° pivoting head of the Cell Scraper reaches EVERY corner of the cell vessel.

Advantages:

- Polyethylene head is gentle but effective in cell removal.
- Free rotating blade.
- Total access to all corners.
- Different blade widths.
- Small raised knobs on the handle.
- Lint-free blister packaging.
- User friendly dispenser case.

SCRAPERS



Different blade widths available.

Item #	Description	Quantity
TP99002	TPP Cell Scraper, 24cm long	1/bag, 150/case
TP99003	TPP Cell Scraper, 30cm long	1/bag, 150/case
TP99004	TPP Cell Scraper, 38cm long	1/bag, 100/case

TPP99002 even fits in a 24 well plate!

Fixed head TPP spatula also available: TP99010

Lint-free blister packaging.

Soft scraper head to protect the cells.

Rotation to the required position.

"Because EVERY Cell is Precious."

SWISS DESIGN

FAST and No Tip Overs.

Rapid Filtermax® & Syringe filters

SPEED OF FILTRATION & ERGONOMIC DESIGN.

Quadratic vacuum filtration, conveniently excellent!

Available in 150, 250, 500 and 1,000 mL

RAPID TURBOMAX

SYRINGE FILTER

Diameter 33 mm for a stable fit of the syringe filter: doesn't easily slide!

Advantages of Filtermax® Bottle Top Filters:

- Large quadratic filter surface of 49 and 69 cm^2.
- High flow rate.
- Premium PES (Polyethersulfone) filter membrane - pore size of 0.22 µm.
- Low protein binding - excellent chemical resistance.

Item #	Description	Quantity
TP99150	TPP Rapid Filtermax System150mL	1/bag, 18/cs
TP99250	TPP Rapid Filtermax System 250mL	1/bag, 12/cs
TP99500	TPP Rapid Filtermax System 500mL	1/bag, 10/cs
TP99950	TPP Rapid Filtermax System 1000mL	1/bag, 9/cs
TP99722	TPP Syringe Filters, Sterile, 0.22µM, 33mm	1/pk, 40/cs
TP99745	TPP Syringe Filters, Sterile, 0.45µM, 33mm	1/pk, 40/cs

Advantages of Syringe Filters:

- Designed for high flow rate
- 0.22µM or 0.45µM PES membrane
- Larger filter area
- 3 to 5 times faster than standard filters
- DNAse/ RNAse non-pyrogenic gamma sterile
- Stand and lever lock connect

FILTRATION

Can be used as medium reservoir.

GL-45 compatible screw thread.

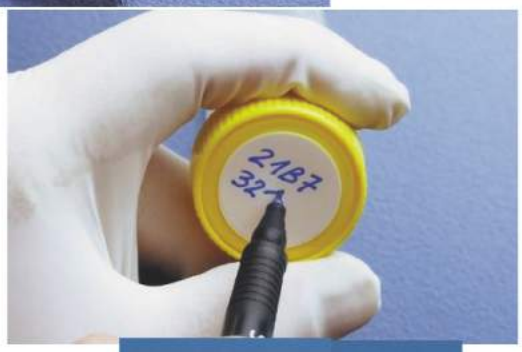
Stable fit on a 50 mL tube.

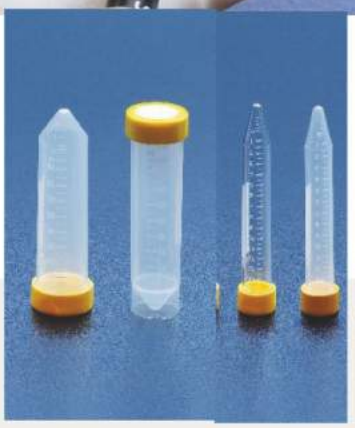
"Tissue Culture *Faster* & Mess-free"

SWISS DESIGN

TPP® Centrifuge Tubes

EASE OF USE FEATURES allow for easy identification
PREMIUM CONSTRUCTION means no buckling or cracking during spins or storage at -80°C!





TUBES

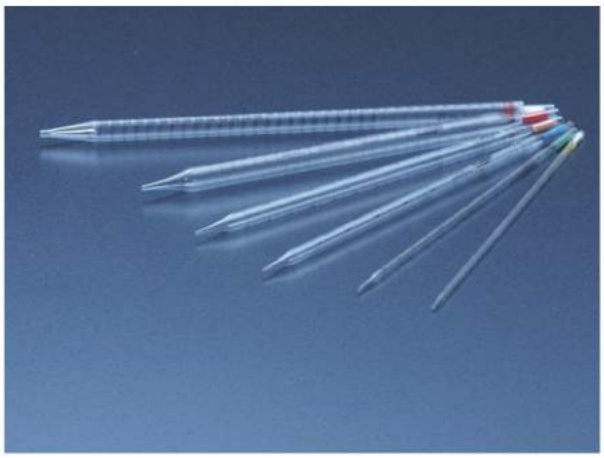
Advantages:

- Freezing and boiling proof.
- Ideal for long term storage at -80°C.
- Great for high speed spins (15,500 rpm).
- Pronounced internal groove creates seal.
- Graduations all the way down to 0.1 ml for 15 mL and 0.5 mL for 50 mL.
- White sticker on top of cap and labeling area on side (stays on even at -80°C).
- Sterile, DNase/RNase free, non-pyrogenic , and heavy metal-free.

Order #	Description	Graduatons (mL)	Max Volume (mL)	Dimensions (mm)	Max g-Force	Quantity
TP91115	15 mL Conical Tube (PS)	14	15	16.5x120	1,700	800/cs
TP91015	15 mL Conical Tube (PP)	14	15	16.5x120	15,500	800/cs
TP91019	13 mL Flat Tube (PP)	12	13	16.5x100	15,500	800/cs
TP91050	50 mL Conical Tube (PP)	50	50	30x115	15,500	360/cs
TP91051	50 mL Conical Tube (PP), with skirt	50	50	30x115	15,500	320/cs
TP80617	Rack for Conical Tubes					1

Serological Pipettes

Available as 1, 2, 5, 10 and 25 mL.



SINGLE PIECE CONSTRUCTION ELIMINATES MEDIA DRIP POST-ASPIRATION.

Designed to be more ergonomic, providing significant advantages in liquid handing.

Advantages:

- Prevents "pipette drip".
- Accurate volume 1 - 25 ml.
- Highly visible, bi-directional and over-volume graduations.
- Smooth interiors: prevent cell hang-up or clumping inside the pipette.
- Shorter length reduces arm/back strain of end user.
- Excellent optical transparency.
- Color coded cotton plugs and dispenser boxes for easy identification.

Item #	Description	Qty
TP94001	Serological Pipette, 1mL	1/bag, 400/cs
TP94002	Serological Pipette, 2mL	1/bag, 300/cs
TP94005	Serological Pipette, 5mL	1/bag, 200/cs
TP94010	Serological Pipette, 10mL	1/bag, 200/cs
TP94024	Serological Pipette, 25mL	1/bag, 100/cs

Excellent accessibility to all corners.

Stackable TPP dispenser box.

Highly visible graduations.

ENHANCED PIPETTE EXPERIENCE:

It's all about design, precision, speed, ease-of-use & reliability.

Serological Pipettes with Reservoir & Turbo-Fix

SEROLOGICALS

Advantages of Serological Pipettes with Reservoirs

Reservoir offers large capacity volumes in a compact, ergonomic design.

- Stable, break and drip resistant pipette tip.
- Small tip diameter is excellent for use even in small TC flasks.
- Optimized form of mouthpiece.
- Fits in standard pipette-aids.
- Pair with Turbo-Fix for fast pipetting even at these large volumes.

Advantages of Turbo-Fix: Pipette-Aid

Its turbo modus provides significant increase in pipetting speed, improving productivity.

- Turbo suction force approx. 13.5 ml/sec (with a serological pipette 50 ml).
- More than 6 h pipetting cable free.
- Li-ion polymer rechargeable battery-technology.
- Lightweight = 195 g.
- Gravity dispense possible.
- Autoclavable pipette nose Stabifix included.

Slender pipette tips.

Item#	Description
TP94525	Serological Pipette, 25mL/40mL Reservoir, 60/cs
TP94550	Serological Pipette, 50mL/70mL Reservoir, 50/cs
TP94701	Turbo-Fix Pipette-Aid

"Because Ergonomics & Speed Matters."

SWISS DESIGN

Cell Productivity Amplified.

TubeSpin® Bioreactors

Available in 15, 50, or 600 mL format.

BIOREACTORS

SPIN AND CULTURE IN THE SAME TUBE!

Proven advantages in large scale screening and optimization processes.

Larger surface area for gas exchange

Advantages:

- Easily scale and run parallel experiments.
- Saves money and Eco-Friendly.
- Different openings for customized gas exchange .
- More efficient shaking with large surface area for gas exchange.
- Highest quality virgin polypropylene .
- Easy to read white graduations.

Volume	Item #	Description	Quantity
15 mL	TP87017	Round Bottom, Filter Cap	40/bag, 20 bags/cs, 800 Total
	TP87017-200	Round Bottom, Filter Cap	40/bag, 5 bags/cs, 200 Total
	TP87017-400	Round Bottom, Filter Cap	40/bag, 10 bags/cs, 400 Total
50 mL	TP87050	Conical Bottom, Filter Cap	20/bag, 180/cs
	TP87050-60	Conical Bottom, Filter Cap	20/bag, 60/cs
	TP86050	with Septum (for robotic reloading)	180/cs
600 mL	TP87600-3	Conical Bottom, Filter Cap	1/bag, 3/cs
	TP87600-13	Conical Bottom, Filter Cap	1/bag, 13/cs
	TP87600	Conical Bottom, Filter Cap	1/bag, 26/cs

Filter caps for sterile gas exchange

"Because Cell Productivity Matters."

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BEST STORAGE FOR YOUR CRUCIAL SAMPLES

Never doubt the integrity of your tissue culture plastics again!

TPP Cryo Tubes

CRYO TUBES

Safe Storage without worrying about leaching.

- External gasket provides security in sample storage in vapor phase of LN_2 and -80°C.
- Manufactured with the highest quality of virgin raw materials.
  - No fear of sample interaction or leaching from plastics.
  - No additives, slip agents, biocides or plasticides used in manufacturing.
- Sterile, gamma irradiated, DNase, RNase, non-pyrogenic , heavy metal-free.
- White writing surface on tube.
- Easy to read white graduations.
- Cap inserts allow for color coding.

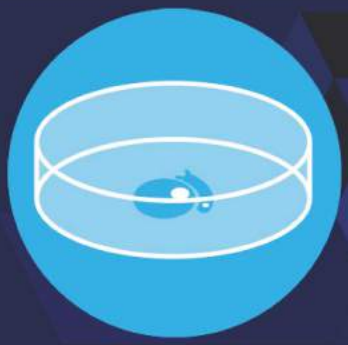
External thread for optimal sample safety WITHOUT the worry of silicone gaskets.

Item #	Description
TP89012	1.2 mL TPP Polar Tubes, 100/bag, 400/cs
TP89020	2.0 mL TPP Polar Tubes, 100/bag, 400/cs
TP99020	Cap Inserts for TPP Polar Tubes, 6 assorted colors, 100/bg, 600/cs

"Because Quality Matters."

SWISS DESIGN

TISSUE CULTURE:



Cultivation

Centrifugation

Examination

3 in 1

TUBE

Tiny Tube

Multifunctional: cultivation, incubation, examination under microscopy, and centrifugation all in one tube!

Advantages:

- **Cultivation**: 10 cm^2 surface activated growth area.
- Virgin polystyrene– the best environment for your cells.
- **Centrifugation**: fits any 50 ml standard tube adapter, can be spun up to 1 ,200 xg.
- **Examination**: great optical clarity for microscopy.

With filter screw cap.

Item#	Description	Quantity
TP91243	TPP Tissue Culture Flat Tube, 10cm2, Conical bottom	4/bag, 54 bags/cs, 216 Total

TINY

Examination.

Segmental packaging – scratch free.

Large opening for easy access.

"Cell Culture made EASY."

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The Chamber Slide: Reimagined

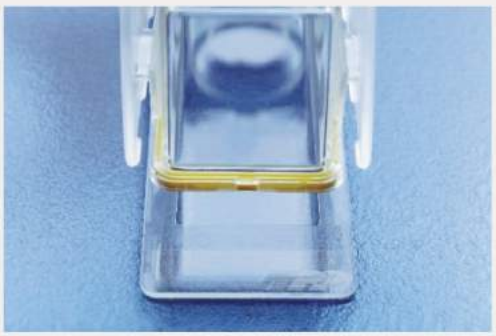
Clipmax Chamber Slide

Remove the chamber and fix and stain cells directly on the slide—all with the added protection of a flask!

Advantages:

- Cultivation: 10 cm^2 surface activated growth area.
- Resistant to solvents (acetone, ethanol xylene).
- Remove chamber with a "click"
  - No need for tools!
- Great for staining and immunofluorescence measurements.
- Crystal clear plastic microscope slide.
- Stackable.
- Filter screw cap for optimal gas exchange.

Order #	Description	Growth surface (cm2)	Dimensions (mm)	Quantity
TP70010	10cm2 ClipMax Chamber slide	14	93x33x32	1/bag, 5/cs



"Cell Culture innovated."

SWISS DESIGN

TISSUE CULTURE:

Qualities of a Flask. Accessibility of a Dish.

TPP® Peel-off and Recloseable Culture Flasks

DISH / FLASKS HYBIRDS

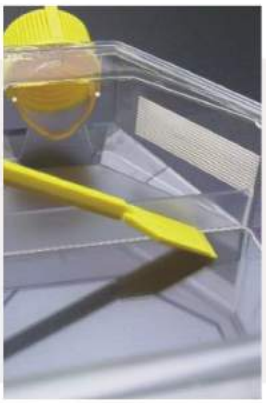
INNOVATIVE FEATURES AND OUTSTANDING CELL GROWTH PROPERTIES.

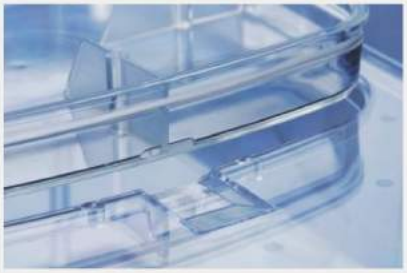
The optic-mechanically activated growth area offers optimal cell adhesion and proliferation.

Advantages:

- Uniform flat surface promotes cell growth without clumping.
- Crystal clear transparency for imaging.
- Lifted base for uniform temperature and CO_2 distribution.
- Neck design reduces risk of media spill over.
- Highly visible bilateral marking areas.
- Top opening allows for easy accessibility with a filtered cap.

Volume	Item #	Description	Quantity
25 mL	TP90025	Vented Cap	10/bag, 360/cs
	TP90026	Filter Cap w/ 0.22µM PTFE membrane	10/bag, 360/cs
75 mL	TP90075	Vented Cap	5/bag, 100/cs
	TP90076	Filter Cap w/ 0.22µM PTFE membrane	5/bag, 100/cs
150 mL	TP90150	Vented Cap	3/bag, 36/cs
	TP90151	Filter Cap w/ 0.22µM PTFE membrane	3/bag, 36/cs
300 mL	TP90300	Vented Cap	3/bag, 18/cs
	TP90301	Filter Cap w/ 0.22µM PTFE membrane	3/bag, 18/cs





"Because CONSISTENCY begins upstream."

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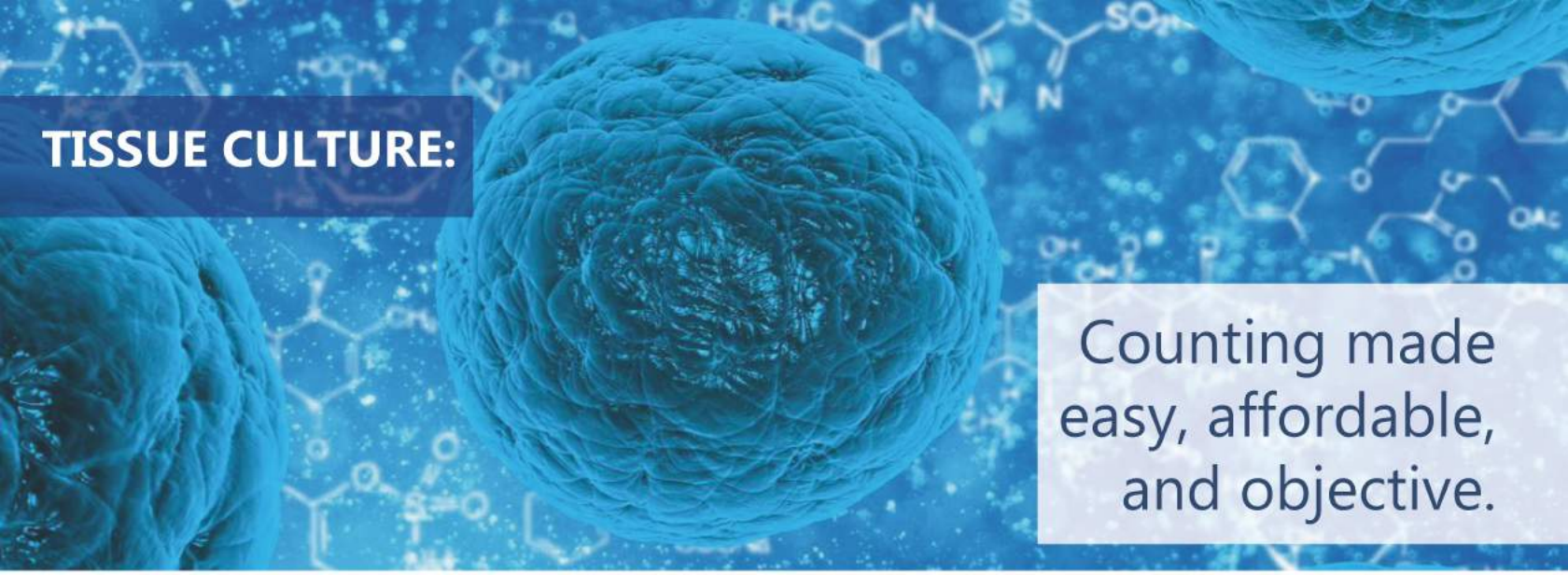


Counting made easy, affordable, and objective.

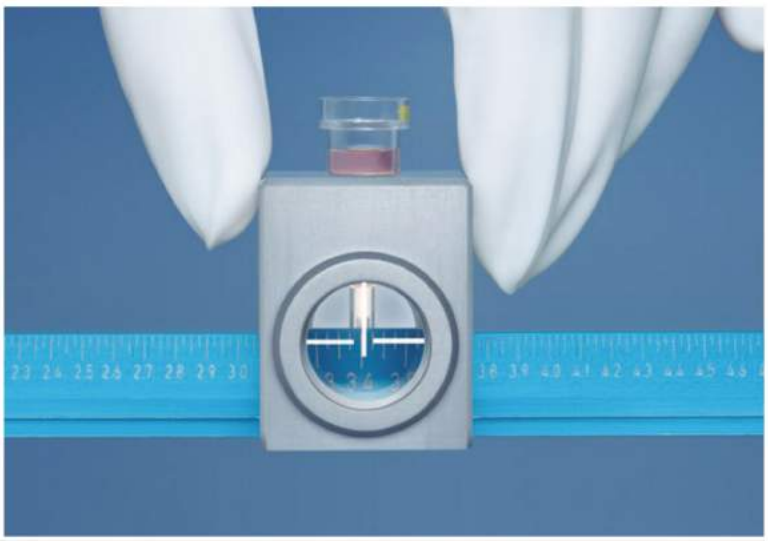
PCV CELL COUNTER

TPP® PCV Cell Counter

No more dye, no more tedious individual cell counting, simplify your cell quantitation with the PCV Cell counter!

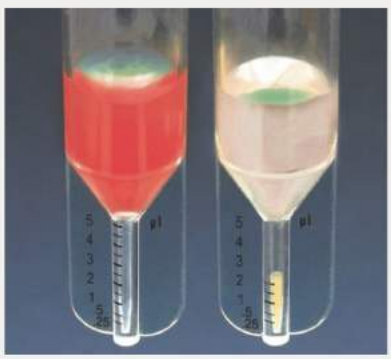
Advantages:

- Quick and reproducible cell counting method based on cell volume.
- Reusable equipment, tubes cost is minimal.
- PCV tubes fit in normal 1.5 ml centrifuge rotor.
- Create base number then spin and read—that's it!



Order#	Description	Quantity
TP87005	PCV Cell Counting Tubes (with capillary graduations only)	50/pk
TP87007	PCV Cell Counting Tubes (no graduations)	50/pk
TP87008	TPP Cap for PCV Tubes	50/pk
TP87010	Easy Read Ruler	1

Easy to read graduations and instrument take the guesswork out of cell counting!



"Make cell counting objective. Minimize human error."

SWISS DESIGN

TPP® and MIDSCI™ Quality Assurance

Quality Management

TPP is ISO 9001:2008 certified. The quality standard is audited and confirmed by re-certification processes regularly.

Quality Control: from Raw Material to the ready TPP Product

MIDSCI and TPP provide their end users with the highest quality in tissue culture plastics through the detailed oriented design and manufacturing processes. The intricate is possible with the complex quality assurance system. Products are dispatched only when all criteria are fulfilled. Therefore, TPP guarantees faultless and top-quality products for all areas of tissue culture and laboratory uses.

Quality Standards

Production: TPP products are manufactured in a clean room environment.

Free from pyrogens and detectable endotoxins: All TPP products are tested systemically with the LAL test to prove the absence of endotoxins. The value of endotoxin is <0.06 EU/ml with few exceptions. Exact data are available from the quality certificates that can be sent upon request.

Free from detectable RNA/DNA: Independent research laboratories periodically test and confirm that no foreign RNA/DNA is detectable with TPP products.

Free from detectable RNase/DNase: Independent research laboratories periodically test and confirm that no foreign RNase/DNase is detectable with TPP products.

Sterility: 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 the 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 plane and growth enhancing surface that has an optimal proliferation effect. TPP tissue culture products are tested lot wise for their different tissue growth criteria.

Free from cytotoxic substances: All TPP tissue culture products are free from cytotoxic substances. TPP tests this regularly conforming DIN EN ISO 10993-5.

Leaching: Leaching signifies the slow compounds dissolving (leaching) from plastic ware into buffer and solvents. TPP avoids this by using ultrapure raw-material that is certified to be free of chemical softeners and additive. All raw materials conform to Pharmacopoeia USP Class VI. Additionally, plastic molds are used without any slip agents to avoid any potential leaking and impact on your sample.

TPP® and MIDSCI™ FAQ

What do all of the markings mean on my TPP box?

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 guaranties a "Sterility Assurance Level" (SAL) of 10^{-3}.
	Expiry Date	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 more accept guarantee claims.
LOT	Lot Number	Each product packaging carries a well visible, black lot number. This batch identification number ensures traceability, analyses and monitoring of all data of raw material supply, processes and quality control over a period of several years.

How should I store my TPP products when not in use?

TPP recommends a careful storage in a relative humidity of a maximum of 50-60%, a temperature of 10-30°C, and no exposure to direct sunlight.

I have very finicky cells. Will TPP work?

We would be happy to offer you a sample. Due to TPP's lot-to-lot consistency and quality controlled process, we see finicky cells thriving in TPP every day! Contact us today for a sample.

Can I stack my TPP plates, dishes, and flasks?

Yes! TPP flasks, plates, and dishes are designed to be stacked! Each has raised feet or a vent on the bottom that allows air flow through and a more even temperature distribution. This allows for each level of the stack to be the same temperature in the incubator and avoids insulative issues with stacking.
The feet also provide a more stable stack, avoiding costly issues when units are dropped.

Does MIDSCI offer any equipment and suggestions for shaking the 15, 50, and 600 mL bioreactors?

Yes! MIDSCI has shakers that can be placed in CO_2 incubators as well as CO_2 incubators to accommodate all your needs. We will also help you determine the best orbital speed based off your cell type and working volumes for each bioreactor.

For any additional questions, please reach out to your sales representative, e-mail tech@midsci.com, or call us at 1-800-227-9997. We are happy to help!

MIDSCI™
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Evaporation Problems?
Issues with Contamination?
Data Reproducibility Issues?

Ask us how TPP and MIDSCI can help not only your Tissue Culture, but all of your downstream applications!

TPP® & MIDSCI™