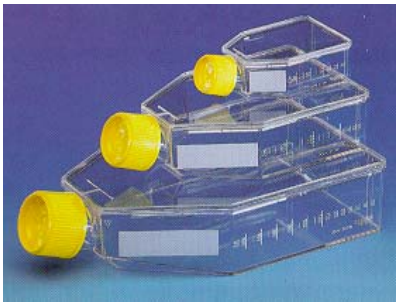
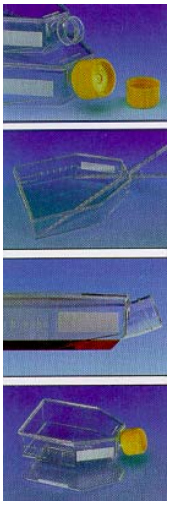
Flasks



Our new range of flasks is the result of intensive cooperation between user experts and the development specialists. The uncompromising application of years of experience in the manufacture of tissue culture flasks has led to a product, which offers the user substantial advantages.

Great importance was attached to the accessibility of the inner flask, the tissue culture properties, and the cap closure.

The most important requirement of a tissue culture flask is no doubt an even and guaranteed surface refinement in the growth zone. The interior surface treatment provides an optimal growth surface on the flask base for the most varied matrix-dependent tissue cultures. At the same time the untreated side and top interior surfaces reduce the amount of cell lost during the separation phases, because the undesired tissue adhesion outside the growth zone is diminished.



Features:

- Easy bag opening without scissors
- Proper and safe stacking. Legible volume scale in white print, with marking area
- Impeccable optical clarity for microscope observation
- Flask provides a stable base if used as a medium-reservoir
- Made from high-grade, low-toxin Polystyrene
- Screw cap from Polyethylene
- Package content guaranteed sterile due to gamma-ray irradiation
- Flasks are individually leakage-tested
- Cell growth properties are supervised batch-wise

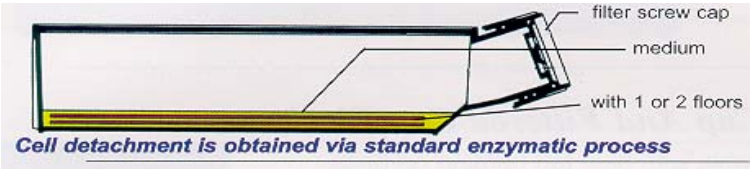
Number	Description	L x W x H (cm)	Growth Area (cm^2)	Volume (ml)	Case Qty.	Price
90025	Vented Cap	9 x 5 x 2.5	25	60	36 Bags of 10	388.44
90075	Vented Cap	15 x 8.5 x 3.5	75	270	20 Bags of 5	228.59
90150	Vented Cap	20.5 x 12 x 4.5	150	690	12 Bags of 3	185.63
90026	Filtered Cap	9 x 5 x 2.5	25	60	10 Bags of 36	421.10
90076	Filtered Cap	15 x 8.5 x 3.5	75	270	20 Bags of 5	242.35
90151	Filtered Cap	20.5 x 12 x 4.5	150	690	12 Bags of 3	199.37

Multi-floor Flasks

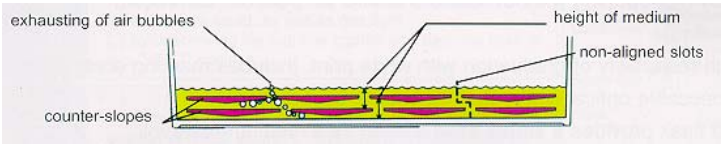
Multi-floor flasks also offer the following substantial benefits:

Medium Saving	Less medium required due to its unique floor concept and design
Space Saving	One TPP Multi-floor flask may replace up to 3 standard 150cm^2 flasks
Cost Saving	Time and purchase cost savings by using fewer flasks
Environment Friendly	Reduced amount of plastic waste
Product Range	Available with 1 or 2 floors

The uniqueness of this tissue culture flask is due to the inserted floors. Built with one or two floors the growth surface of a standard TPP 150cm^2 flask is expanded to 420cm^2. This new TPP Multi-floor flask is particularly suitable for cultivation of a large quantity of adhesive cells. Cell detachment is obtained via a standard enzymatic process. Microscopic examination of each floor can be performed. All cell growth surfaces are TC treated.



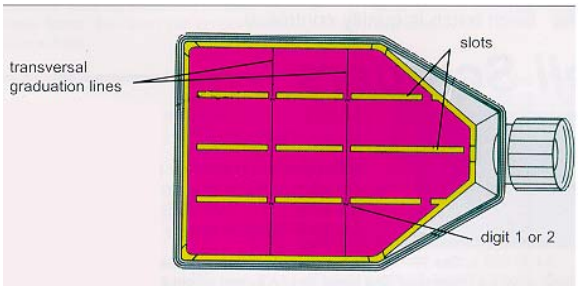
Each floor includes 3 rows of 3 slots, which ensures an adequate medium flowing over all cell surfaces and guarantee an appropriate gas exchange through the medium.



These slots contribute to exhaust the air bubbles, which could occur during the flask filling of the medium. The double counter-slope designed under each floor of the flask also facilitates air-bubble exhaustion. The rows of slots in each floor of the two-floor flask are designed non-vertically, aligned to each other. This allows cells in suspension in the medium during the seeding phase to lay down in a homogeneous way to each cell culture surface.

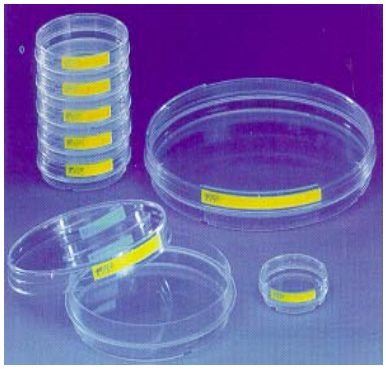
To ease locating the cells for microscopic examination, each floor includes transversal graduation lines, which divide its surface into 12 areas. Each floor carries at the crossing point of each area an engraved digit (1 or 2) corresponding to that floor.

- 22µm membrane filter screw cap
- Sterilized by gamma radiation



Number	L x W x H (cm)	Growth Area (cm^2)	Qty/case	Price
90351	20.5 x 12 x 4.5	420	12 Bags of 3	264.00

Petri Dishes



- Dish cell surface TC treated
- High-grade polystyrene. Every batch tested for cell growth characteristics
- Outstanding flatness and optical clarity for microscopic examination
- Wrapped-in peel-off bag for easy opening
- Sterilized by gamma radiation

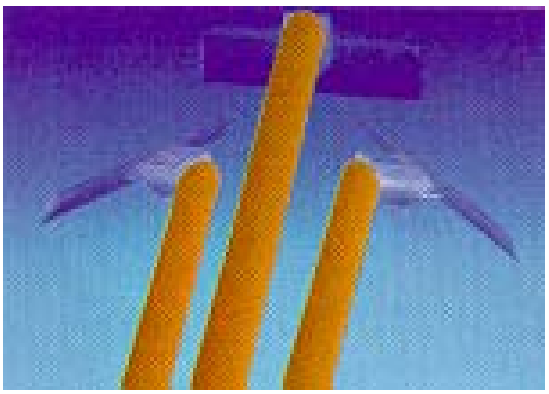
The TPP dish design includes a serrated ring to easily and safely grip the dish, and an exclusive double marking area, which acts as a bottom/top dish positioning aid. Dishes are available in standard sizes. The perfectly flat surface of the bottom dish is treated for cell growth. A serrated ring around the bottom dish permits an easy and safe pick up and handling.

Two marking areas on the top (yellow one) and bottom dish wall (frosted one) assure a reference for the top/bottom orientation. A numeric scale has been set on the periphery of the cell surface to ease locating an area of examination. The stacking ring reduces condensation between stacked dishes and eliminates adherence from condensation. Stops in the lid allow an efficient fit and optimal gas exchange during incubation.

Number	Diameter x high (mm)	Growth Area (mm^2)	Qty/case	Price
93040	40 x 10	9.2	45 Bags of 20	357.51
93060	60 x 15	22.1	60 Bags of 14	364.37
93100	100 x 20	60.0	24 Bags of 10	197.65
93150	150 x 20	147.8	20 Bags of 5	237.19

Cell Scrapers

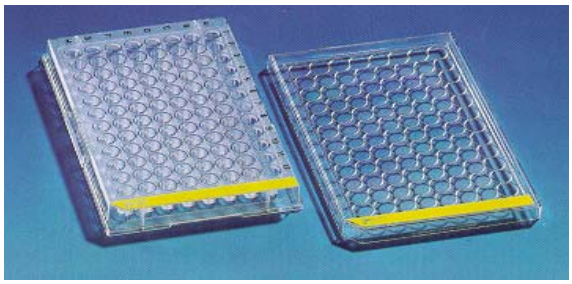
Both types of scraper are gamma-sterilized. The stem is made of a relatively rigid plastic material. The scrapers provide excellent access, especially with TPP flasks of 25, 75, 150 cm^2 and tissue culture flat tube 10 cm^2.
TPP Cell Scrapers have a blade, which can rotate, to permit gentle removal and neat collection of cells. Available in two lengths, the scrapers are packed in a practical dispenser from which they can be removed easily. The blade can be angled with one hand for several functions. Angling the blade is achieved with an axle and bearing design. The blade is made of soft grade polyethylene to allow neat collection without damage to the cells.



Number	Total Length (cm)	Blade length (mm)	Qty/case	Price
99002	24	12	150	345.48
99003	30	20	150	390.16

Tissue Culture Plates

6-12-24-96 Well Tissue Culture Plates



- Tissue Culture plates are individually packaged in transparent peel off bags
- Designed for easy, stable stacking, and can be mix-stacked
- Outstanding optical clarity of the well bottoms for microscopic examinations and spectroscopic measurements
- High grade, low-toxin polystyrene
- TC Plates are gamma sterilized
- Batch-wise monitoring cell growth characteristics

The new generation of TC Plates is characterized by **yellow strip marking areas** and excellent display of the **black embossed well identification**. The special design offers effective well ventilation and a safe, easy grip plate. The cell growth surface TC treatment is limited to the well bottoms. It allows efficient attachment and growth of the most varied types of cell lines. Untreated well wall causes a flattening of the meniscus to reduce diffusion of light. The serration areas located on the sides allow the plate to be easily lifted from the bench or the incubator shelf. A slightly larger lid allows for easy lift of the lid. Humidity adherence effect is minimized and plates can be separated with ease when stacked on top of one another. The plates feature black embossed well markings and a one-way lid ensured by one shaped corner matching the plate end. It helps to eliminate superposition of the lid to the plate. A unique air-extraction ventilation feature maximizes external/internal gas exchange and reduces media evaporation without altering the CO2 diffusion. Rings on the lid prevent cross-contamination from well condensate.

Number	No. of Wells	Well dia. (mm)	Volume (ml)	Plates/case	Price
92006	6	34.5	15.53	126 individually wrapped	364.37
92406	6	34.5	15.53	16 bags of 4	185.63
92012	12	22.2	6.3	126 individually wrapped	364.37
92412	12	22.2	6.3	16 bags of 4	185.63
92024	24	16.2	3.29	126 individually wrapped	364.37
92424	24	16.2	3.29	16 bags of 4	185.63
92096	96	6.7	0.34	162 individually wrapped	450.32
92696	96	6.7	0.34	16 bags of 6	252.66
92097	96	6.7	0.31	162 individually wrapped	446.87
92697	96	6.7	0.31	16 bags of 6	252.66

Tissue Culture Tubes and Centrifuge Tubes

- Both products are TC-treated
- Easy read white volume graduation with marking field
- Excellent optical clarity for viewing under microscope
- High-grade, low toxicity polystyrene tube, polyethylene closure
- Packed contents are gamma-sterilized
- Monitored cell growth properties in batches
- Tissue Culture Centrifuge Tubes can be centrifuged at 9400 x g

These Tissue Culture Tubes complement the culture flasks ideally with an added advantage of centrifugation. The flat section has impeccable see through qualities and can also serve as a mini-flask. The large tube has a flat surface offering an advantage under a microscope as viewing through a tube's curvature causes distortion. The culture surface is perfectly flat and TC-treated. A wide-neck allows easy accessibility. The tube can be centrifuged by adding water to the insert in order to prevent breakage during centrifuging. The flat base features two protrusions, which protect the base against scratches. Also available is a filter cap, which provides sterile ventilation and guarantees a gas exchange without contamination.

TPP tubes meet the standard demands with added ease for applications. The tubes fit most standard centrifuges and are equipped with advantages such as a tight seal, transparency, graduation markings, and a white marking field. The yellow screw cap is tight and safe against overturning. The end of the thread is equipped with a restriction to prevent cap from loosening. A white marking area on the front of the cover and the cap provides good visibility for labeling. Clear white graduation marks extend to the conus (bottom). The large tubes are graduated at 0.5ml; the small tubes are graduated at 0.1ml increments.

Tissue Culture Tubes

Number	Dimension (mm)	Material	Growth Surface	With Filter Cap	Qty/case	Price
91253	30 x 110	Polystyrene	10cm^2 (flat bottom)	Yes	275	336.88

Tissue Culture Centrifuge Tubes

Number	Design	Dimension (mm)	Material	Volume (ml)	Qty/case	Price
91050	Conical	30.0 x 116	Polypropylene	50	18 bags of 20	197.65
91051	Skirted	30.0 x 116	Polypropylene	50	16 bags of 20	204.53
91015	Conical	16.5 x 120	Polypropylene	15*	20 bags of 40	376.41
91115	Conical	16.5 x 120	Polystyrene	15*	20 bags of 40	402.19