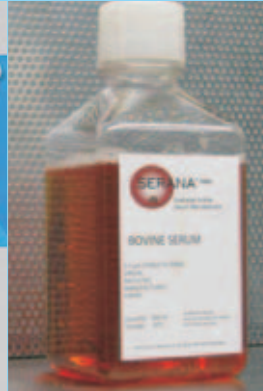


Jain Biologicals Pvt. Ltd.

Catalog & Price List 2013-14



Greiner Bio-One Tissue Culture Wares



Eppendorf AG Liquid Handling Systems

Serana (WA) Pty Ltd Serums

Biowest Serums and Medias

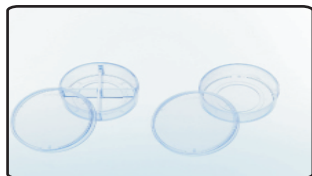


Advanced Scientifics Bio-Processing Bags

Laboratory Accessories

Catalog 2013 - 2014

Product Highlights



CELLview™ - Cell Culture dish with Glass Bottom

- Embedded glass bottom for maximal planarity.
- Subdivided version enables simultaneous multiplex analysis.
- Additional TC surface treatment and Advanced TC surface modification available.

→P. 3



Advanced Tc™ – Innovative polymer modification for the Cultivation of Fastidious Cell

- Improved cell adherence and increased cell yield.
- Optimal cultivation conditions for sensitive cells.
- Permits usage of serum-reduced or serum-free media

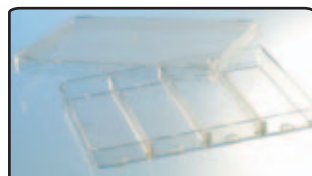
→P. 8-9



Non-Binding Microplates- Surface with Ultra Low Non-Specific Binding Properties

- Low binding of biomolecules (proteins, DNA, RNA).
- Higher assay sensitivity with reduced background.
- High surface stability without leaching.
- Ideal for biochemical assays.

→P. 23



CELLSTAR® OneWell™ & FourWell Plate™

- One Well Plate™: Non-divided plate for tissue culture and bacteriological applications following ANSI standard.
- FourWell Plate™: Subdivided plate for microscopic applications following ANSI Standard.

→P. 33



CELLSTAR® CELLreactor™ - Miniaturisation of large-Scale Testing Procedures

- Suspension cell cultivation in a bio-reactor while maximising the number of parallel experiments.
- Capillary pore membrane in the cap as sterile barrier and for optimum gas exchange.

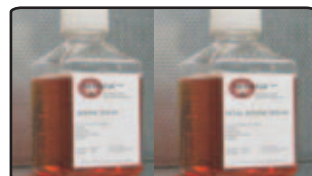
→P. 41



Real Time PCR Microplates for better Sensitivity

- High proportion of white pigments in the plates boosts the fluorescence signals and thus the sensitivity of Real Time PCR systems.
- Available in 96 and 384 well format.

→P. 48



→P. 55



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788092	6	0030 073.061	67	0030 132.890	70	4430 000.018	67	4986 000.025	66
788093	6	0030 073.088	67	0030 132.904	70	4860 000.011	65	Biowest	
788095	21	0030 073.100	67	3115 000.003	63	4860 000.020	65	L0910-100	82
788095	21	0030 073.126	67	3115 000.020	63	4860 000.038	65	L0008-020	81
788101	21	0030 073.142	67	3120 000.011	61	4860 000.046	65	L0008-100	81
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788896	25	0030 089.405	66	3120 000.038	61	4860 000.267	63	L0009-100	81
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790801	43	0030 089.448	66	3120 000.070	61	4860 000.542	65	L0011-100	81
793855	23	0030 089.456	66	3120 000.089	61	4860 000.550	65	L0012-010	81
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Greiner Bio-One

CELLSTAR®

• Improved cell adhesion through physical surface treatment • Cell culture flasks with standard screw/without filter cap • Canted neck • Graduation on both side • Sterile and user-friendly packaging • 25 cm², 75 cm² and 175 cm² growth areas • High and flat design of the 175 cm² cell culture flask for variability of media volume.



Standard Screw Cap with Ventilation Position.

The secured click-in ventilation position is reached, once the cap snaps in audibly. In addition, the correct position is indicated by a vertical tip of a triangle and the readable writing VENT (Fig. 1). This allows visual verification of the aeration position, even when the flasks are stacked in the incubator. If the cap is turned clockwise to the end stop, the flask is closed gas-tight.

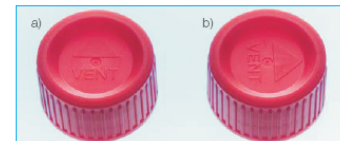


Figure 1: Standard screw cap with ventilation position.

a) Ventilation position b) Gas-tight position.

Standard Cell Culture Flasks

Cat.-No.	690 160	690 170 ^{*)}	658 170	660 160	661 160
Flask design	-	-	-	flat	high
Growth area [cm ²]	25	25	75	175	175
Total Volume [ml]	50	50	250	550	650
Working volume [ml]	5 - 10	5 - 10	15 - 38	20 - 45	20 - 85
TC surface treatment	+	+	+	+	+
Sterile	+	+	+	+	+
Standard screw cap	red	red	red	red	red
Quantity per bag/case	10/200	10/200	5/120	5/50	4/40
Price/Each (Rs.)	52.00	82.00	95.00	250.00	325.00

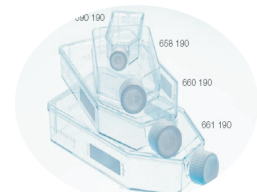
^{*)} with measuring grid

Filter Cap Cell Culture Flasks

Cat.-No.	690 175	658 175	660 175	661 175
Flask design	-	-	flat	high
Growth area [cm ²]	25	75	175	175
Total Volume [ml]	50	250	550	650
Working volume [ml]	5 - 10	15 - 38	20 - 45	20 - 85
TC surface treatment	+	+	+	+
Sterile	+	+	+	+
Filter screw cap	red	red	red	red
Quantity per bag/case	10/200	5/120	5/50	4/40
Price/Each (Rs.)	67.00	125.00	295.00	415.00

Standard Suspension Culture Flasks

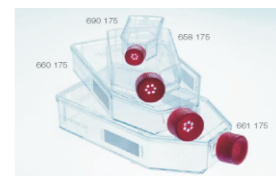
• Hydrophobic surface, ideal for suspension cultures, hybridoma and embryonic stem cells
 • Suspension culture Flasks with standard screw cap (without filter) • White standard screw cap with ventilation position • Canted neck • Graduation on both sides • Sterile and user friendly packaging • 50 ml, 250 ml, 550 ml and 650 ml volumes available.



Cat.-No.	690 190	658 190	660 190	661 190
Flask design	-	-	flat	high
Total Volume [ml]	50	250	550	650
TC surface treatment	-/suspension	-/suspension	-/suspension	-/suspension
Sterile	+	+	+	+
Standard screw cap	white	white	white	white
Quantity per bag/case	10/200	5/120	5/50	4/40
Price/Each (Rs.)	95.00	180.00	335.00	415.00

Filter Cap Suspension Culture Flasks

- Hydrophobic surface, ideal for suspension cultures, hybridoma and embryonic stem cells.
- Suspension culture flasks with filter screw cap • Canted neck • Graduation on both side • Sterile and user friendly packaging • Additional standard screw caps (without filter) in each case.



Cat.-No.	690 195	658 195	661 195
Flask design	–	–	high
Volume [ml]	50	250	650
TC surface treatment	-/suspension	-/suspension	-/suspension
Sterile	+	+	+
Filter screw cap	white	white	white
Quantity per bag/case	10/200	5/120	4/40
Price/Each (Rs.)	110.00	225.00	490.00

CELLSTAR® AutoFlask™

AutoFlask™ - Cell culture flask for automated systems. The standard microplate footprint of the AutoFlask™ ensures compatibility with a wide range of cell culture and liquid handling systems. A robotically accessible pre-scored multiple entry septum assures sterility of flask contents throughout processing. The unique centrifugation pocket enables separation of cells from supernatant inside the flask and the integrated hydrophobic filter facilitates gas exchange during the cultivation of cells. A user-friendly colour coding allows easy identification of the AutoFlask™ version. Beside the cell culture treated and the suspension culture version, Greiner Bio-One also offers the AutoFlask™ with **Poly-D Lysine** or **Collagen Type I** coating as well as with **Advanced Tc™** polymer modification.

- Compatible with a wide range of cell culture and liquid handling systems • Hydrophobic membrane for optimal gas exchange • Format : Length - 127.76 mm, Width - 85.48 mm, Height - 19.5 mm • Pre - scored multiple entry septum • Centrifugation pocket for cell separation • Customisable barcode labelling • Handling and pipetting in horizontal position. • Different coatings and surface modifications available.

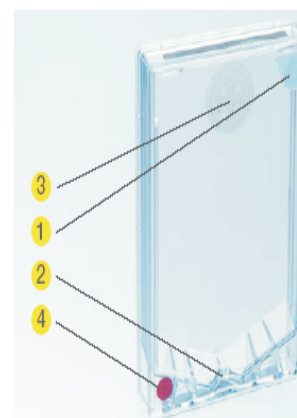
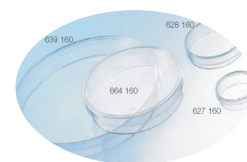


Figure 1: CELLSTAR® AutoFlask™

Cat.-No.	779 160	779 190
Description	AutoFlask™	AutoFlask™
TC Surface treatment	+	-/suspension
Sterile	+	+
Growth area [cm ²]	83.6	83.6
Colour code/Barcode labelling	red/+	white/+
Max. volume [ml]	110	110
Working volume [ml]	20-40	60-80
Quantity per bag/case	10/100	10/100
Price/Each (Rs.)	1250.00	1250.00

CELLSTAR® Cell Culture Dishes

- Improved cell adhesion through physical surface treatment • Vents ensure optimal gas exchange • Sterile and user-friendly packaging • Available in the sizes 35, 60, 100 and 145 mm Ø • 8.7 to 143 cm² growth areas • Easy stacking • Maximal transparency for excellent microscopic analysis.



Cat.-No.	627 160	627 170	628 160	664 160	639 160
Ø [mm] x height [mm]	35 x 10	35 x 10	60 x 15	100 x 20	145 x 20
Growth area [cm ²]	8.7	0.93/well	21	58	143
Total Volume [ml]	10	10	28	100	240
Working volume [ml]	5	0.1/well	6 - 7	16 - 17	25 - 27
Vents	+	+	+	+	+
TC Surface treatment	+	+	+	+	+
Sterile	+	+	+	+	+
Quantity per bag/case	10/740	10/740	10/600	15/360	5/120
Price/Each (Rs.)	22.00	55.00	23.00	36.00	130.00

→ New

CELLview™ - Cell Culture Dish with Glass Bottom for Microscopic Applications

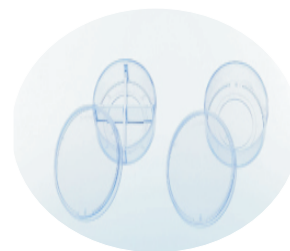
The CELLview™ cell culture dish combines the convenience of a standard size 35 mm disposable plastic cell culture dish with the optical quality of glass, providing superior high-resolution microscopic images of in-vitro cultivated cultures.

The CELLview™ cell culture dish is made from high-grade polystyrene combined with an integrated glass bottom. The innovative design of the cell culture dish provides a single-plane, flat bottom with a consistent working distance and maximal planarity. Moreover, the dish bottom configuration facilitates optimal thermal conductivity and avoids thermal variations in heated platforms used for live cell imaging.

The subdivided version of the CELLview™ enables simultaneous multiplex analyses of different cell lines, various stimulations or diverse transfections. Quartering the cell culture dish provides four individual compartments with a growth area of approximately 1.9 cm², allowing minimisation of cells and reagents required per individual assay.

Advantages: • Subdivided version enables simultaneous multiplex analysis • Embedded glass bottom for maximal planarity • Additional TC surface treatment and Advanced TC™ surface modification available.

Applications: • Phase contrast microscopy • Fluorescence microscopy • Confocal microscopy • live cell imaging • Differential interference contrast microscopy. • Polarised light microscopy • Fluorescence-in-situ-hybridisation (FISH)

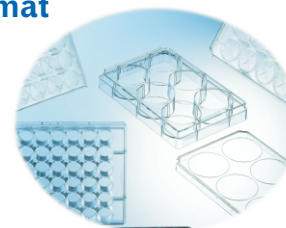


Cat.-No.	627 870	627 975	627 871	627 860	627 965	627 861
Description	CELLview™ cell culture dish	CELLview™ cell culture dish	CELLview™ cell culture dish	CELLview™ cell culture dish	CELLview™ cell culture dish	CELLview™ cell culture dish
Bottom	glass	glass	glass	glass	glass	glass
No. of compartments	4	4	4	1	1	1
Ø [mm]x height [mm]	35 x 10	35 x 10	35 x 10	35 x 10	35 x 10	35 x 10
Growth area [cm ²]	1.9/ compartment	1.9/ compartment	1.9/ compartment	8.7	8.7	8.7
Total volume [ml]	1.5/ compartment	1.5/ compartment	1.5/ compartment	10	10	10
Working volume [ml]	0.1/0.5*)	0.1/0.5*)	0.1/0.5*)	5	5	5
Surface treatment	TC	Advanced Tc™	–	TC	Advanced Tc™	–
Sterile	+	+	+	+	+	+
Quantity per bag/case	10/40	10/40	10/40	10/40	10/40	10/40
Price/Each (Rs.)	1100.00	2350.00	1100.00	530.00	1150.00	550.00

*) 0.1 ml for seeding or staining only on glass area; 0.5 ml for cultivation in the complete compartment.

CELLSTAR® Cell Culture Multiwell Plates - 1, 4, 6, 12, 24, 48 Well Format

• With hydrophobic surface (TC surface treatment) for improved cell adhesion • With hydrophobic surface for suspension cultures and hybridoma cells • High clarity and low autofluorescence • Lid enables optimal gas exchange with the lowest possible evaporation • Single position lids to prevent cross-contamination • Alphanumeric well coding • Easy-to-open packaging • Compatible with common instruments and automated systems.



Cat.-No.	670 180	670 190	9607 7307	657 160	665 180	662 160	677 180
Well Format	1 Well	1 Well	4 Well	6 well	12 well	24 well	48 well
Length [mm] x width [mm]	127.8x85.5	127.8x85.5	127.8x85.5	–	–	–	–
Growth area [cm ²]	95	95	–	9.6/well	3.9/well	1.9/well	1.0/well
Total volume [ml]	113.7	113.7	18.6/well	2-5/well	2-4/well	0.5-1.5/well	0.5-1/well
Notches/Height [mm]	+/14.4	+/14.4	+/14.4	–	–	–	–
TC Surface treatment	+	–	–	+	+	+	+
Sterile	+	+	+	+	+	+	+
Lid	+	+	+	+*)	+*)	+*)	+*)
Quantity per bag/case	8/32	8/32	8/32	1/100	1/100	1/100	1/100
Price/Each (Rs.)	450.00	425.00	400.00	120.00	200.00	138.00	200.00

↳ New

↳ New

↳ New

*) with condensation rings

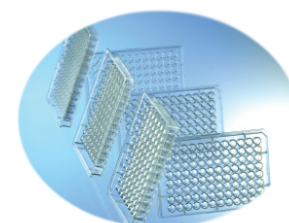
CELLSTAR® Cell Culture Multiwell Plates for Suspension Cultures- 6,12,24,48 Well format

Cat.-No.	657 185	665 102	662 102	677 102
Well format	6 well	12 well	24 well	48 well
Max. volume per well [ml]	16	6.5	3.3	1.7
TC Surface treatment	-/suspension	-/suspension	-/suspension	-/suspension
Sterile	+	+	+	+
Lid	+ ^{*)}	+ ^{*)}	+ ^{*)}	+ ^{*)}
Quantity per bag/case	1/100	1/100	1/100	1/100
Price/Each (Rs.)	275.00	275.00	275.00	275.00

^{*)} with condensation rings

96 Well Polystyrene Cell Culture/Suspension Culture Microplates solid bottom, clear

- With improved cell adhesion through physical surface treatment
- Compatible with automated systems
- High clarity of the microplates for optimal microscopic examinations
- Lid enables optimal gas exchange with the lowest possible evaporation
- Chimney well design, raised wells and condensation rings in lids to prevent cross-contamination
- Alphanumeric well coding
- Individually wrapped in peel-off packs for user
- consecutive lot numbering
- Stackable
- Barcode labelled on request.

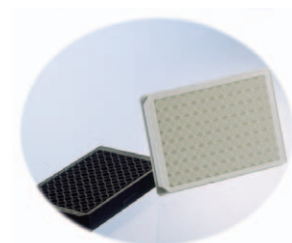


Cat.-No.	650 180	650 185	651 180	655 180	655 182	655 185
Well profile	U-bottom	U-bottom	V-bottom	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well
Bottom/Colour	solid/clear	solid/clear	solid/clear	solid/clear	solid/clear	solid/clear
Growth area per well [mm ²]	35	-	28	34	34	-
Working volume per well [ml]	40 - 280	40 - 280	40 - 200	25 - 340	25 - 340	25 - 340
TC Surface treatment	+	-/suspension	+	+	+	-/suspension
Sterile	+	+	+	+	+	+
Lid	+	+	+	+ ^{*)}	+ ^{*)}	+ ^{*)}
Quantity per bag/case	1/100	1/60	1/100	1/100	10/160	1/60
Price/Each (Rs.)	135.00	210.00	220.00	130.00	255.00	235.00

^{*)} with condensation rings

96 Well Polystyrene Cell Culture Microplates - solid bottom, white / black

- Improved Cell adhesion through physical surface treatment
- Lid enables gas exchange with minimal evaporation
- High clarity of the microplates for optimal microscopic examinations
- Stackable
- Alphanumeric well coding
- Individually wrapped in peel-off packs for user convenience
- Consecutive lot numbering.

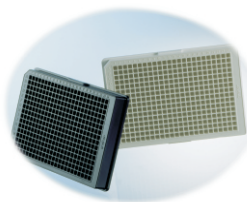


Cat.-No.	655 073	655 083	655 079	655 086	655 098	655 090
Well Profile	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well
Bottom	solid	solid	solid	solid	μClear®	μClear®
Colour	white	white	black	black	white	black
Growth area per well [mm ²]	34	34	34	34	34	34
Working volume per well [μl]	25 - 340	25 - 340	25 - 340	25 - 340	25 - 340	25 - 340
TC Surface treatment/Sterile	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +
Lid	-	+ ^{*)}	-	+ ^{*)}	+ ^{*)}	+ ^{*)}
Quantity per bag/case	10 / 40	8 / 32	10 / 40	8 / 32	8 / 32	8 / 32
Price/Each (Rs.)	465.00	535.00	465.00	535.00	795.00	795.00

^{*)} with condensation rings

96 Well Half Area Polystyrene Cell Culture Microplates - solid bottom, clear / white / black, μ Clear®

For many applications in the laboratory, a reduction of the sample volume is an important criterion. For pharmaceutical drug screening, the simplest way of reducing the sample volume is to use high-format microplates, such as the 384 well or 1536 well microplates. However, many research groups in the development field or companies in the field of ELISA diagnostics shy away from changing to high format plates, due to the automation that this entails. The 96 well half area microplates offer an interesting alternative here. They can be pipetted manually without any problem, but at the same time allow a reduction of the sample volume by up to 50%.

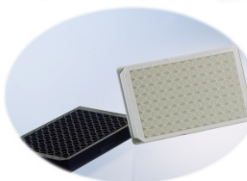


- Reduction of sample volume by up to 50% • Cell growth area : 15.0 mm² • Working Volume : 15 - 175 μ l

Cat.-No.	675 180	675 083	675 086	675 098	675 090
Well profile	half area	half area	half area	half area	half area
Bottom	solid	solid	solid	μ Clear®	μ Clear®
Colour	clear	white	black	white	black
Growth area per well [mm ²]	15	15	15	15	15
Working volume per well [μ l]	15 - 175	15 - 175	15 - 175	15 - 175	15 - 175
TC surface treatment / Sterile	+ / +	+ / +	+ / +	+ / +	+ / +
Lid	+	+	+	+	+
Quantity per bag /case	8 / 32	8 / 32	8 / 32	8 / 32	8 / 32
Price/Each (Rs.)	550.00	625.00	625.00	875.00	875.00

384 Well Polystyrene Cell Culture Microplates - solid bottom, clear/white/black

- Lid enables gas exchange with the lowest possible evaporation • High clarity of the clear microplates for optimal microscopic examinations • Stackable • Alphanumeric well coding.

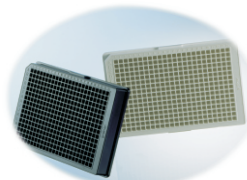


Cat.-No.	781 165	781 182	781 073	781 080	781 079	781 086
Well profile	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	clear	white	white	black	black
Growth area per well [mm ²]	10	10	10	10	10	10
Working volume per well [μ l]	15 - 110	15 - 110	15 - 110	15 - 110	15 - 110	15 - 110
TC Surface treatment	+	+	+	+	+	+
Sterile	+	+	+	+	+	+
Lid	-	+	-	+	-	+
Quantity per bag/case	10/40	8 /32	10/40	8 / 32	10/40	8 / 32
Price/Each (Rs.)	725.00	775.00	725.00	775.00	725.00	775.00

384 Well Polystyrene Cell Culture Microplates

, μ Clear®, /white/black

- 384 Well Microplates • Sealers, Lids and CapMats • Barcode Labelling.



Cat.-No.	781 093	781 098	781 092	781 091
Well profile	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	μ Clear®	μ Clear®	μ Clear®	μ Clear®
Colour	white	white	black	black
Growth area per well [mm ²]	10	10	10	10
Working volume per well [μ l]	15 - 110	15 - 110	15 - 110	15 - 110
TC Surface treatment	+	+	+	+
Sterile/Lid	+ / -	+ / +	+ / -	+ / +
Quantity per bag/case	10/40	8 / 32	10/40	8 / 32
Price/Each (Rs.)	1100.00	1175.00	1100.00	1175.00

384 Well Small Volume™ HiBase/LoBase Cell Culture Microplates

solid bottom, white/black, μ Clear®, white/black

Cat.-No.	784 080	784 086	788 073	788 086	788 093	788 092
Well profile	Small Vol™	Small Vol™	Small Vol™	Small Vol™	Small Vol™	Small Vol™
Bottom	solid	solid	solid	solid	μ Clear®	μ Clear®
Colour	white	black	white	black	white	black
Growth area per well [mm ²]	2.7	2.7	2.7	2.7	2.7	2.7
Working volume per well [μ l]	4 – 25	4 – 25	4 – 25	4 – 25	4 – 25	4 – 25
TC Surface treatment	+	+	+	+	+	+
Sterile	+	+	+	+	+	+
Lid	+	+	-	+	-	-
Quantity per bag/case	8/32	8/32	10/80	15/60	10/80	10/80
Plate design	HiBase	HiBase	LoBase	LoBase	LoBase	LoBase
Price/Each (Rs.)	1100.00	1100.00	1075.00	1475.00	1475.00	1475.00

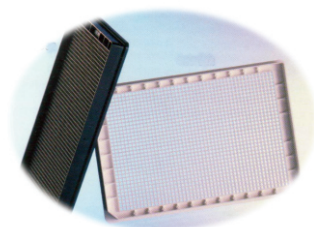
↪ New

↪ New

1536 Well Cell Culture Microplates- Hi Base

1536 well cell culture microplates are physically surface treated for improved cell adhesion and available in the following versions:

- In clear, white or black polystyrene • As clear bottom variants (μ clear®) • LoBase and HiBase Versions • Barcode - labelled on request.

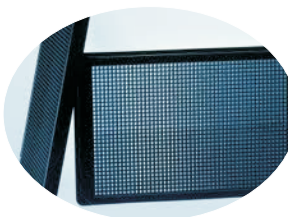


Cat.-No.	782 180	782 073	782 080	782 078	782 086	782 093	782 092
Well profile	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom
Bottom/Colour	solid/clear	solid/white	solid/white	solid/black	solid/black	μ clear®/white	μ clear®/black
Growth area per well [mm ²]	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Working volume per well [μ l]	3 – 10	3 – 10	3 – 10	3 – 10	3 – 10	3 – 10	3 – 10
TC Surface treatment	+	+	+	+	+	+	+
Sterile	+	+	+	+	+	+	+
Lid	+	-	+	-	+	-	-
Plate Design	HiBase	HiBase	HiBase	HiBase	HiBase	HiBase	HiBase
Quantity per bag/case	1/32	15/60	10/40	15/60	10/40	15/60	15/60
Price/Each (Rs.)	4500.00	4000.00	4500.00	4000.00	4500.00	8000.00	8000.00

1536 Well Screenstar/Lo Base Microplates.

1536 Well Screenstar Microplate:- The increasing significance of High-Content Screening (HCS) which means the microscopic analysis of cells, cell growth and cell signalling in drug discovery, created a new demand for specialised microplates with excellent optical features.

- Features:** • Non-sterile, non-treated version • 1536 Well Microplates • 1536 well SensoPlate™
- Barcode labelling.

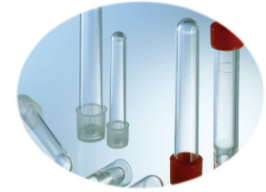


Cat.-No.	789 866	783 093	783 092
Well format	1536 well	1536 well	1536 well
Well profile	F-bottom	F-bottom	F-bottom
Bottom/Colour	CO-Film/black	μ clear®/white	μ clear®/black
Growth area per well [mm ²]	2.1	2.3	2.3
Working volume per well [μ l]	3-15	3 - 10	3 - 10
TC Surface treatment	+	+	+
Sterile/Lid	+/-	+/-	+/-
Plate Design	Screenstar	LoBase	LoBase
Quantity per bag/case	17/68	15/60	15/60
Price/Each (Rs.)	7000.00	8000.00	8000.00

↪ New

Polystyrene Cell Culture Tubes

- Made of high-grade polystyrene
- Improved cell adhesion through physical surface treatment
- Available with screw cap, bayonet cap or two - position vent stopper.



Cat.-No.	163 160	164 160	191 160	120 160	120 190
Ø [mm] x height [mm]	17 x 100	16.8 x 100	18 x 95	12.4 x 75	12.4 x 75
Volume [ml]	12	12	14	4.5	4.5
TC surface treatment / Sterile	+ / +	+ / +	+ / +	+ / +	+ / +
Support Skirt	-	+	-	-	-
Screw cap ¹⁾	red	-	-	-	-
Bayonet cap	-	red	-	-	-
Two – position vent stopper	-	-	+	+	+
Quantity per bag/case	5 / 1000	5 / 1000	1 / 750	1 / 1000	25 / 2000
Price/Each (Rs.)	36.00	32.00	27.00	29.00	29.00

CELLSTAR® CELLreactor™ -15ml and 50 ml Polypropylene Tube with Filter Screw Cap



The new CELLSTAR® CELLreactor™ tube can be used as small bioreactor for suspension and spheroids cell culture, facilitating miniaturisation of large scale setups and maximising the number of parallel experiments.

Each CELLreactor™ tube cap features 8 holes and a specific USP class VI certified, PTFE coated capillary pore filter membrane with a pore size of 0.2µm to guarantee maximal sterility while providing excellent gas exchange. In case the aeration has to be reduced, individual openings can be sealed.

Agitation of internal liquids is achieved with standard shaking lab equipment minimising foam formation and shearing forces induced by integrated mixing devices. Compared to cell culture and spinner flask as well as other cultivation disposables no transfer for cell harvest is required. Based on the conical design the tube fits in a standard 50 ml centrifuge rotors and cells can be spun down in the same tube.

In addition to cell culture applications the CELLSTAR® CELLreactor™ tube can also be applied for the expansion of aerobic bacteria, yeast or other microorganisms in shaken cultures as well as storage of components and liquids requiring gas exchange. For anaerobic culture the CELLSTAR® polypropylene tube with standard cap (Cat.-No. 227261) can be used.



Advantages: ? Facilitates a high number of parallel experiments ? Flexible working volume from 1-35 ml ? Maximal sterility and excellent gas exchange ? Conical tube design and in tube cell harvest.

Applications: Bioreactor for suspension and spheroid cells ? Expansion of aerobic bacteria, yeast and microorganisms. ? Storage of components and liquids requiring gas exchange.

Cat.-No.	188 240	227 245
Description	CELLreactor™ 50 ml tube with filter cap	CELLreactor™ 50 ml tube with filter cap
Bottom design	conical	conical
Ø[mm]x height [mm]	30 x 115	30 x 115
Volume	15	50
Sterile	+	+
Colour/Filter screw cap	Natural/Blue	Natural/Blue
Graduation	Blue	Blue
Writing field	white	white
Quantity per bag/case	20/300	20/500
Price/Each (Rs.)		115.00

↳ New

↳ New

Polystyrene Roller Bottles - Short / Long Form

- Particularly high stability and optical clarity
- Improved cell adhesion through physical surface treatment
- Thread enables quick opening with a $\frac{2}{3}$ turn
- Screw caps with larger knurls for improved grip and ease of opening / closing
- Lot number and best - before date on each roller bottle
- Also available with filter caps
- Sterile, individually packed screw caps available.
- Nomenclature
- Double-bag bulk packaging (suited for clean room use) available on request.



Cat.-No.	680 060	681 060	681 070	682 060	682 070
Description	1 X	2 X	2.5 X	1 XL	5 XL
Surface	smooth	ribbed	ribbed	smooth	ribbed
Ø [mm] x height [mm]	122 x 271	122 x 271	122 x 271	122 x 500	122 x 500
Growth Area [cm ²]	850	1700	2125	1700	4250
Max. volume [ml]	2520	2280	2300	4970	4640
TC surface treatment	+	+	+	+	+
Sterile	+	+	+	+	+
Standard screw cap	+	+	+	+	+
Quantity per bag/case	2/24	2/24	2/24	1/12	1/12
Price/Each (Rs.)	615.00	1000.00	1000.00	1200.00	1650.00

Polystyrene Filter Cap Roller Bottles - Short / Long Form

Cat.-No.	680 058	682 065	681 062	681 072	682 078	383 382
Description / Form	1 X / short	1 XL / long	2 X / short	2.5 X / short	5 XL / long	screw cap
Surface	smooth	smooth	ribbed	ribbed	ribbed	filter
Ø [mm] x height [mm]	122 x 271	122 x 500	122 x 271	122 x 271	122 x 500	-
Growth Area [cm ²]	850	1700	1700	2125	4250	-
Max. volume [ml]	2520	4970	2280	2300	4640	-
TC surface treatment	+	+	+	+	+	N. A
Sterile	+	+	+	+	+	+
Filter screw cap	+	+	+	+	+	-
Quantity per bag/case	2/24	1/12	2/24	2/24	1/12	1/100
Price/Each (Rs.)	775.00	1300.00	1200.00	1200.00	2400.00	160.00

Polyethylene Terephthalate (PET) Roller Bottles - Short / Long Form

- PET material with high impact resistance and gas permeability
- Surface suitable for many adherent cell lines
- All PET(G) roller bottles have a standard screw cap
- PETG (glycolised PET) with high stability at a consistent level of transparency
- Break-proof
- Nomenclature.



Cat.-No.	680 160	681 160	681 170	682 180
Description	1 X	2 X	2.5 X	1 XL
Material	PET	PETG	PETG	PETG
Form	short	short	short	long
Surface	smooth	ribbed	ribbed	smooth
Ø [mm] x height [mm]	116 x 276	122 x 275	122 x 275	122 x 500
Growth Area [cm ²]	850	1700	2125	1800
Max. volume [ml]	2500	2450	2500	5130
Sterile	+	+	+	+
Quantity per bag/case	1/18	5/20	5/20	22
Price/Each (Rs.)	475.00	975.00	1200.00	2750.00

Advanced TC™ Cell Culture Vessels

For the propagation of fastidious cells like primary or sensitive cells as well as cells cultivated under restricted growth conditions (serum-free or serum-reduced) Greiner Bio-One offers the Novel Advanced TC™ polymer modification. Based on an innovative technique, the cell culture surface is modified to promote cellular features and functions. Enhanced cell attachment and higher proliferation rates improve and accelerate cell expansion. Furthermore, the Advanced TC™ surface facilitates consistent and homogenous cell attachment increasing the overall cell yield and reducing cell loss, for example during automated washing steps.

The positive effect on cell morphology is particularly apparent during cultivation of sensitive cells, serum deprivation or after cellular stress induced by transfection or transduction processes. Moreover, cells cultivated on the Advanced TC™ surface exhibit higher transgene activity after gene transfer/insertion.

Due to the production process, the chemical modification of the polymer assures consistent and reproducible product quality. Transport and storage can be carried out at room temperature.

Applications: • Cultivation of fastidious and sensitive cells. • Usage of serum-reduced or Serum-free media • Differentiation of semi-adherent cells. • Transfection • Transduction. • Automation/High-throughput analysis

Advantages: • Improved cell adherence • Consistent cell attachment • Homogenous cell growth. • In-vivo like morphology • Increased cell yield • Optimal cultivation conditions for sensitive cells. • Permits usage of serum-reduced or serum-free media • Reduced cell loss due to (automated) washing steps • Improved assay consistency • Storage at room temperature. • 2-year shelf life.

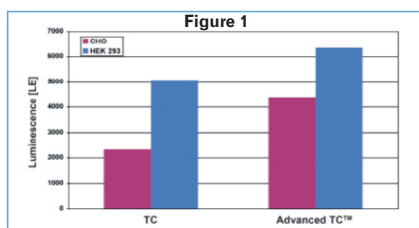
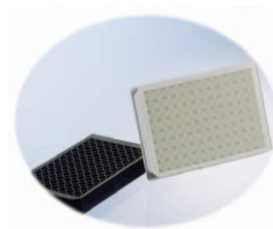


Figure 1 : CHO and HEK 293 cells were seeded in a 96 well microplate with a concentration of 40,000 cells/well or 100,000 cells/well respectively, cultivated at 37 °C and 5 % CO₂ for 24 hours and thereafter transfected with the pCMV- GLuc-vector. Both cell lines exhibit raised Luciferase activity on the Advanced TC™ surface.

Advanced TC™ Standard Cell Culture Flasks

Cat.-No.	690 960	658 970	660 960	661 960
Flask design	–	–	flat	high
Growth area [cm ²]	25	75	175	175
Total volume [ml]	50	250	550	650
Working volume [ml]	5 – 10	15 – 38	20 – 45	20 – 85
Advanced TC™	+	+	+	+
Sterile	+	+	+	+
Standard screw cap	blue	blue	blue	blue
Quantity per bag/case	10/200	5/120	5/50	4/40
Price/Each (Rs.)	230.00	410.00	1525.00	1525.00

Advanced TC™ Filter Cap/Auto Flask™ Cell Culture Flasks

Cat.-No.	690 975	658 975	660 975	661 975	779 960
Flask design	–	–	flat	high	AutoFlask™
Growth area [cm ²]	25	75	175	175	83.6
Total volume [ml]	50	250	550	650	110
Working volume [ml]	5 – 10	15 – 38	20 – 45	20 – 85	20 – 40
Advanced TC™	+	+	+	+	+
Sterile	+	+	+	+	+
Filter screw cap	blue	blue	blue	blue	–
Colour code	–	–	–	–	blue
Barcode labelling	–	–	–	–	+
Quantity per bag/case	10/200	5/120	5/50	4/40	10/100
Price/Each (Rs.)	250.00	450.00	1550.00	1550.00	On request

Advanced TC™ Cell Culture Dishes

Cat.-No.	627 960	628 960	664 960	639 960
Ø[mm] x heigh [mm]	35 x 10	60 x 15	100 x 20	145 x 20
Growth area [cm ²]	8.7	21	58	143
Total Volume [ml]	10	28	100	240
Working Volume [ml]	5	6 - 7	16- 17	25 - 27
Vents	+	+	+	+
Advanced TC™	+	+	+	+
Sterile	+	+	+	+
Quantity per bag/case	10/740	10/600	15/360	5/120
Price/Each (Rs.)	175.00	195.00	230.00	245.00

Advanced TC™ Cell Culture Multiwell Plates

Cat.-No.	657 960	665 980	662 960	677 980
Well Format	6 Well	12 Well	24 Well	48 Well
Growth area per well [cm ²]	9.6	3.9	1.9	1.0
Working volume per well [ml]	2 - 5	2 - 4	0.5 - 1.5	0.5 - 1
Advanced TC™	+	+	+	+
Sterile	+	+	+	+
Lid	+*)	+*)	+*)	+*)
Quantity per bag/case	1/100	1/100	1/100	1/100
Price/Each (Rs.)	380.00	395.00	380.00	415.00

*) with condensation rings

Advanced TC™ 96 Well Cell Culture Microplates

Cat.-No.	655 980	655 982	655 983	655 986	675 983	675 986
Well format	96 Well	96 Well	96 Well	96 Well	96 Well	96 Well
Well profile	F-bottom/ Chimney Well	F-bottom/ Chimney Well	F-bottom/ Chimney Well	F-bottom/ Chimney Well	half area	half area
Bottom	solid	solid	µclear®	µclear®	µclear®	µclear®
Colour	clear	clear	white	black	white	black
Growth area per well [mm ²]	34	34	34	34	15	15
Working volume per well [µl]	25-340	25-340	25-340	25-340	15-175	15-175
Advanced TC™ /Sterile	+/+	+/+	+/+	+/+	+/+	+/+
Lid	+*)	+*)	+*)	+*)	+	+
Quantity per bag/case	1/100	10/160	8/32	8/32	8/32	8/32
Price/Each (Rs.)	475.00	475.00	875.00	875.00	775.00	775.00

*) with condensation rings

Advanced TC™ 384 Well Cell Culture Microplates

Cat.-No.	781 983	781 986	788 983	788 986
Well format	384 well	384 well	384 well	384 well
Well profile	F-bottom	F-bottom	Small Volume™	Small Volume™
Bottom	µclear®	µclear®	µclear®	µclear®
Colour	white	black	white	black
Growth area per well [mm ²]	10	10	2.7	2.7
Working volume per well [µl]	15 – 110	15 – 110	4 – 25	4 – 25
Advanced TC™ / Sterile	+/+	+/+	+/+	+/+
Lid	+	+	+*)	+*)
Quantity per bag/case	8/32	8/32	15/60	15/60
Plate design	–	–	LoBase	LoBase
Price/Each (Rs.)	1050.00	1050.00	1050.00	1050.00

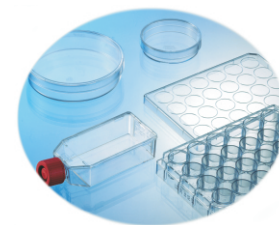
*) ultra low profile lid

CELLCOAT® Protein Coated Cell Culture Vessels

GREINER offers now a wide variety of tissue culture products coated with extra - cellular matrix (ECM) proteins. ECM - proteins are not only an inert scaffold, but participate directly and indirectly in the regulation of cell growth.

The cellcoat family of products comprise the following proteins:

- **Collagen Type 1, Poly-D-Lysine and Poly-L-Lysine** • On special customer request a coating with **Laminin** or **Fibronectin** is possible • Convenience (ready to use) • Quality assurance testing (each lot) • Consistency of coating (reliability) • Room temperature stability • Best before information on each product for long term storage.



Description	Cat. -No. Collagen Type I	Cat. -No. Poly-D Lysine	Cat. -No. Poly-L Lysine	Case Qty.	Price/ Each (Rs.)
TC Petri Dish, 60 x 15mm	628 950	628 940	628 930	100	900.00
TC Petri Dish, 100 x 20mm	664 950	664 940	N.A.	40	1250.00
TC Flask, 25 cm ²	690 950	690 940	N.A.	50	1350.00
TC Flask, 75 cm ²	658 950	658 940	N.A.	50	1655.00
TC Flask, 175 cm ²	661 950	661 940	N.A.	40	3200.00
6 - Well Plate, solid, clear	657 950	657 940	657 930	50	1500.00
24 - Well Plate, solid, clear	662 950	662 940	662 930	50	1750.00
96 - Well Plate, solid, clear	655 950	655 940	655 930	20	1500.00
96 - Well Plate, μ clear®, black	655 956	655 946	655 936	20	1800.00
96 - Well Plate, μ clear®, white	–	655 944	–	20	1800.00
384 - Well Plate, solid, clear	781 950	781 940	781 930	20	2400.00
384 - Well Plate, μ clear®, black	781 956	781 946	781 936	20	2800.00
384 - Well Plate, μ clear®, white	–	781 944	–	20	2800.00
Auto Flask™, 83.6 cm	779 959	779 946	–	100	On request

For Cellcoat Products orders are acceptable in case quantities only and delivery time is approximately 3-4 weeks.

Fibronectin Cellcoat® -Cell Culture Dishes / Flasks

Fibronectin is a high molecular weight glycoprotein present in the extracellular matrix (ECM) and plasma. In vivo Fibronectin mediates the adhesion cells to the extracellular matrix via integrin receptors. It is further involved in migration and differentiation of various cells in embryogenesis as well as wound healing.

Coated as a thin layer on the cultivation surface, Fibronectin serves as a substrate to promote adhesion, proliferation and growth of different cell types.

Applications : • Increase of isolation and cultivation efficiency • Low-serum or serum-free cultivation • Cell adhesion studies • Promotion of cell adhesion, proliferation and growth of endothelial cells, fibroblasts, smooth muscle cells, neurons and epithelial cells.

Cat.-No.	628 920	664 920	690 920	658 920	661 920
Description	Dish	Dish	Flask	Flask	Flask
@[mm] x height [mm]	60 x 15	100 x 20	–	–	–
Growth area [cm ²]	21	58	25	75	175
Max. volume [ml]	28	100	50	250	650
Working volume [ml]	6 – 7	16 – 17	5 – 10	15 – 38	20 – 85
Protein coating	Fibronectin	Fibronectin	Fibronectin	Fibronectin	Fibronectin
Filter Screw Cap	–	–	red	red	red
Quantity per bag/case	5/20	10	10	10	5
Price/Each (Rs.)	1655.00	3850.00	4350.00	5650.00	9900.00

Laminin Cellcoat® - Cell Culture Dishes / Flasks

Laminin is one of the main components of the basement membrane. It consists of three subunits that provide binding sites for the integrin receptor of the cell membrane as well as other extracellular matrix proteins. In vitro Laminin is used as cultivation substrate for improved adhesion and maintenance of the differentiation status of various cells. Further applications are for cell adhesion studies, chemotaxis assays and to increase isolation and cultivation efficiency.

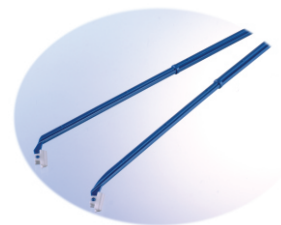
Applications: • Increase of isolation and cultivation efficiency • Introduction of cell differentiation and neurite outgrowth • Cell adhesion studies • Chemotaxis studies • Promotion of cell adhesion, proliferation of various cell types such as endothelial, muscle and neuronal cells.

Cat.-No.	628 910	664 910	690 910	658 910	661 910
Description	Dish	Dish	Flask	Flask	Flask
Ø[mm] x height [mm]	60 x 15	100 x 20	–	–	–
Growth area [cm ²]	21	58	25	75	175
Max. volume [ml]	28	100	50	250	650
Working volume [ml]	6 – 7	16 – 17	5 – 10	15 – 38	20 – 85
Protein coating	Laminin	Laminin	Laminin	Laminin	Laminin
Filter Screw Cap	–	–	red	red	red
Quantity per bag/case	5/20	10	10	10	5
Price/Each (Rs.)	1750.00	3850.00	4800.00	5250.00	on request

Cell Scrapers

• For gentle mechanical removal of adherent cells • Optimised blade design for maximum cell harvest • Blade length 1.8 cm • Minimal mechanical strain • 28 cm and 40 cm handhold length • Pivot angle 60° • Sterile individual packaging

Cat.-No.	541 070	541 080
Length [cm]	28	40
Sterile	+	+
Quantity per bag/case	1/100	1/100
Price/Each (Rs.)	150.00	160.00



ThinCert™ Cell Culture Inserts

The scalloped rims of the ThinCert™ cell culture inserts allow for flatter pipetting angles. This helps to minimise the risk of contamination as the hand of the user does not remain above the open cell culture. Additionally, the scallops significantly enhance the freedom of movement when pipetting and enhance gas exchange during cultivation.

The sales carton can be used as a donor box. The Required number of ThinCert™ cell Culture inserts and CELLSTAR® cell culture plates may conveniently be removed from the donor box, whereas the remaining parts may safely be stored in it.

	0.4 µm transparent	0.4 µm translucent	1.0 µm transparent	3.0 µm transparent	3.0 µm translucent	8.0 µm translucent
Light Microscopy	+	–	+	+	–	+
Electron Microscopy	+	+	+	+	+	+
Fluorescence Microscopy	+	+	+	+	+	+
Immunocyto chemistry	+	+	+	+	+	+
Trans epithelial electric resistance(TEER)	+	+*	+	+	+*	+*
Transport and uptake studies.	–	+	+	+	+	+
Co-cultivation	+	+	+	–	–	–
Cell retention	+	+	+	–	–	–
Migration/chemotaxis/metastasion	–	–	–	+	+	+

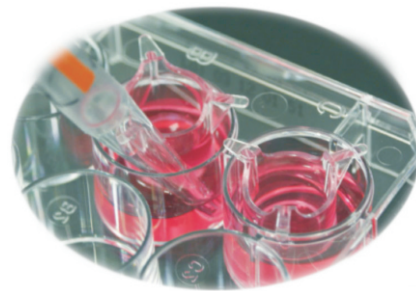
+* Very Suitable

+ Suitable

- Not Suitable

ThinCert™ Cell Culture Inserts 6 Well, 12 Well & 24 Well

- Stable clear polystyrene housing • Hanging geometry • Sealed PET capillary pore membrane • Single, sterile blister packing • Improved cell adhesion through physical surface treatment • Simplified pipetting due to self-lift geometry • Enhanced pipetting access and gas exchange.



6 Well ThinCert™

Cat.-No.	657 640	657 641	657 610	657 630	657 631	657 638
Pore size [μm]	0.4	0.4	1.0	3.0	3.0	8.0
Pore density [cm^{-2}]	1×10^8	2×10^6	2×10^6	0.6×10^6	2×10^6	0.15×10^6
Optical membrane properties	translucent	transparent	transparent	transparent	translucent	translucent
Culture surface [mm^2]	452.4	452.4	452.4	452.4	452.4	452.4
Height (overall) [mm]	16.25	16.25	16.25	16.25	16.25	16.25
Inner/Outer diameter (top) [mm]	24.85 / 27.85	24.85 / 27.85	24.85 / 27.85	24.85 / 27.85	24.85 / 27.85	24.85 / 27.85
Working vol. ThinCert™ [ml]	1.0 – 3.6	1.0 – 3.6	1.0 – 3.6	1.0 – 3.6	1.0 – 3.6	1.0 – 3.6
Working vol. well [ml]	2.0 – 4.15	2.0 – 4.15	2.0 – 4.15	2.0 – 4.15	2.0 – 4.15	2.0 – 4.15
TC surface treatment/Sterile	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +
Multiwell plates per box	4	4	4	4	4	4
ThinCert™ inserts per box	24	24	24	24	24	24
Price/Each (Rs.)	590.00	590.00	590.00	590.00	590.00	590.00

12 Well ThinCert™

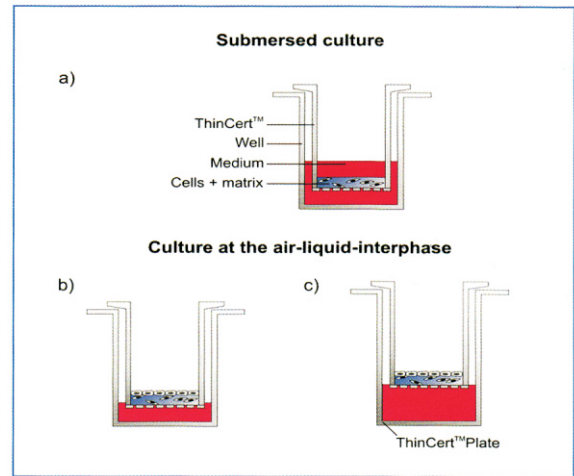
Cat.-No.	665 640	665 641	665 610	665 630	665 631	665 638
Pore size [μm]	0.4	0.4	1.0	3.0	3.0	8.0
Pore density [cm^{-2}]	1×10^8	2×10^6	2×10^6	0.6×10^6	2×10^6	0.15×10^6
Optical membrane properties	translucent	transparent	transparent	transparent	translucent	translucent
Culture surface [mm^2]	113.1	113.1	113.1	113.1	113.1	113.1
Height (overall) [mm]	16.25	16.25	16.25	16.25	16.25	16.25
Inner/Outer diameter (top) [mm]	13.85 / 15.85	13.85 / 15.85	13.85 / 15.85	13.85 / 15.85	13.85 / 15.85	13.85 / 15.85
Working vol. ThinCert™ [ml]	0.3 – 1.0	0.3 – 1.0	0.3 – 1.0	0.3 – 1.0	0.3 – 1.0	0.3 – 1.0
Working vol. well [ml]	1.0 – 2.0	1.0 – 2.0	1.0 – 2.0	1.0 – 2.0	1.0 – 2.0	1.0 – 2.0
TC surface treatment/Sterile	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +
Multiwell plates per box	4	4	4	4	4	4
ThinCert™ inserts per box	48	48	48	48	48	48
Price/Each (Rs.)	540.00	540.00	540.00	540.00	540.00	540.00

24 Well ThinCerts™

Cat.-No.	662 640	662 641	662 610	662 630	662 631	662 638
Pore size [μm]	0.4	0.4	1.0	3.0	3.0	8.0
Pore density [cm^{-2}]	1×10^8	2×10^6	2×10^6	0.6×10^6	2×10^6	0.15×10^6
Optical membrane properties	translucent	transparent	transparent	transparent	translucent	translucent
Culture surface [mm^2]	33.6	33.6	33.6	33.6	33.6	33.6
Height (overall) [mm]	16.25	16.25	16.25	16.25	16.25	16.25
Inner/Outer diameter (top) [mm]	8.4 / 10.4	8.4 / 10.4	8.4 / 10.4	8.4 / 10.4	8.4 / 10.4	8.4 / 10.4
Working vol. ThinCert™ [ml]	0.1 – 0.35	0.1 – 0.35	0.1 – 0.35	0.1 – 0.35	0.1 – 0.35	0.1 – 0.35
Working vol. well [ml]	0.4 – 1.2	0.4 – 1.2	0.4 – 1.2	0.4 – 1.2	0.4 – 1.2	0.4 – 1.2
TC surface treatment/Sterile	+ / +	+ / +	+ / +	+ / +	+ / +	+ / +
Multiwell plates per box	2	2	2	2	2	2
ThinCert™ inserts per box	48	48	48	48	48	48
Price/Each (Rs.)	540.00	540.00	540.00	540.00	540.00	540.00

ThinCert™ Plate

The in-vitro reconstruction of many types of epithelia, such as skin, cornea and airway epithelium, requires that the cells used differentiate at the air-liquid-interphase (air-lift culture). Therefore, the tissue is cultivated in permeable membrane supports (cell culture inserts), with the cell culture medium nourishing the cells from below the membrane and the air exerting its influence from above. If cell culture inserts and conventional cell culture plates are utilised in the air-lift culture, the available volume of culture medium is severely limited. This reduced volume results in an elevated nutrient consumption rate from the lower rate compartment and an increased number of medium exchanges. Furthermore, the reduced frequency of medium changes ensures that the medium conditioning lasts longer and an improved tissue quality is achieved. The ThinCert™ plate, Greiner Bio-One offers an innovative solution for the air-lift culture with ThinCert™ cell culture inserts. The plate is available in 6 and 12 well format. Its deep wells allow a larger volume of medium to be available to the air-lift culture. As a consequence, the frequency of medium exchanges may be reduced to one medium change per week. Furthermore, the reduced frequency of medium changes ensures that the medium conditioning lasts longer and an improved tissue quality is achieved. The ThinCert™ Plate design consists of notches for fixing the position of the inserted ThinCert™ cell culture inserts. This ensures a stable and predictable position of the inserts during the entire process of cell culture. With ThinCert™ Cell culture inserts and the optimised ThinCert™ Plate Greiner Bio-One provides the professional answer to the challenges of tissue reconstruction in vitro.

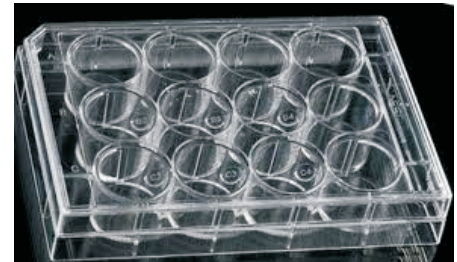
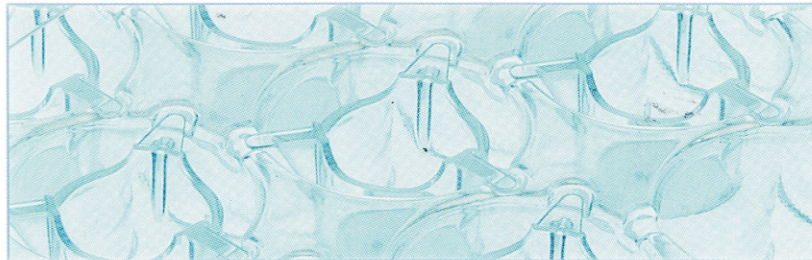


Reconstruction of a full thickness skin in Vitro.

a) A permeable membrane support carries fibroblasts in an extracellular matrix (e.g. Collagen). This dermis equivalent is cultivated under submersed culture conditions. **b)** Keratinocytes are superimposed upon the dermis equivalent and differentiated at the air-liquid-interphase (air-lift-culture). If performed in a regular cell culture plate only a very limited medium volume is available for the air-lift culture. **c)** The ThinCert™ Plate enables the air-lift culture to access an increased medium volume thereby reducing the frequency of medium exchanges. This allows the cells to stay longer in their conditioned environment which may lead to an increase in tissue quality.

ThinCert™ Plate Cell Culture Multiwell Plates

- Optimised for use with ThinCert™ cell culture inserts
- Deep wells for an increased volume of medium in air lift culture
- Available in 6 and 12 well format.
- Notches for fixed insert position.



ThinCert™ Plate: Notches (arrows) secure the position of the ThinCert™ cell culture inserts during cell culture.

Cat.-No.	657 110	665 110
Well format	6 well	12 well
Total volume per well [ml]	30	10
Working volume in air-lift culture [ml]	20	4
Sterile	+	+
Lid	+ ^{*)}	+ ^{*)}
Quantity per bag/case	1/50	1/60
Price/Each (Rs.)	1950.00	1950.00

^{*)} With condensation rings.

HTS - Microplates

1. Material

Polypropylene (PP) and polystyrene (PS) are the standard materials used to manufacture the majority of microplates. Polystyrene is a highly clear polymer with excellent optical properties which makes it ideal for precise optical measurements. Polystyrene is also characterised by its ability to bind biomolecules, such as proteins, and it is therefore often used for manufacturing immunological products. Polystyrene is suitable for work with cell cultures.

Polypropylene is characterised by its excellent chemical and thermal stability. It is the ideal polymer for storage vessels or microplates. Polar molecules, such as proteins or DNA, are binding less to polypropylene than to polystyrene. In addition to polystyrene and polypropylene microplates, Greiner Bio-One manufactures microplates with special requirement profiles, such as the UV-Star® microplates made from different polyolefins.

These polyolefins are characterised by their low level of autofluorescence (Fig.1), exceptionally high clarity, especially in the UV range (Fig.2), and greater chemical stability when compared with polystyrene.

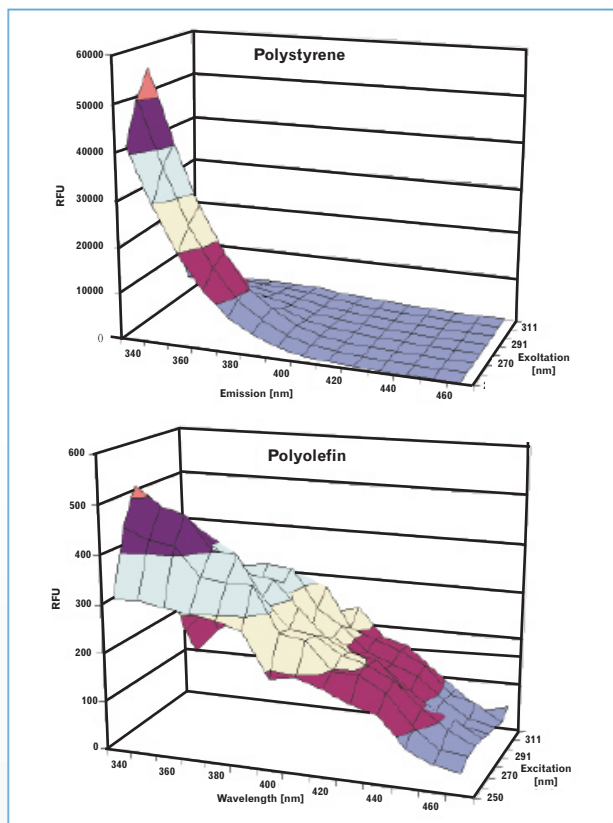


Figure 1: More than 100 x lower autofluorescence of the UV-Star polyolefin compared with polystyrene

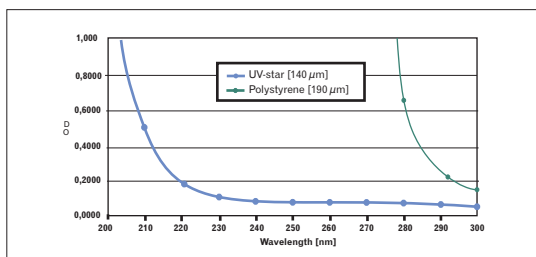


Figure 2: Light transmission the UV range. Comparison of polystyrene/polyolefins

2. µClear® and UVStar®

The move from isotopic to non-isotopic assays (fluorescence/luminescence), and new applications in high-throughput and high-content screening increased the demand for clear bottom plates, microplates with pigmented walls and thin film bottoms.

Up to now, clear bottom microplates have mostly been manufactured using a two-component injection moulding procedure by sticking or welding the components together.

The development of a completely new and patented processing technique has made it possible for us to produce microplates with ultra-thin films, without the use of adhesives or solvents – the µClear® and UV-Star® products. This special method eradicates the risk of leaking wells (Fig. 3).

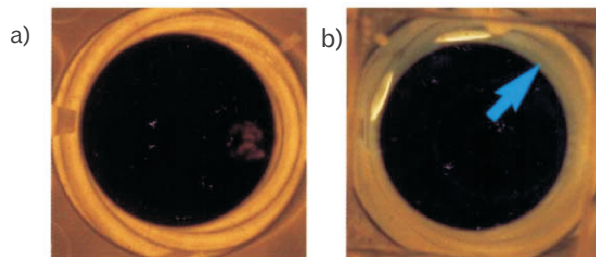


Figure 3: Wells filled with methylene blue after threefold freezing and thawing: a) single well of a Greiner Bio-One UVStar® microplate b) single well of a 96 well UV-transparent microplate of a competitor

The choice of suitable films is the decisive factor, and this will influence the quality of a clear bottom microplate. Both for µClear® and UVStar® microplates, Greiner Bio-One uses bipolar stretched foils. Strict controls before and during production guarantee a constant quality. Polarised light is either not depolarised (UVStar®) or is only depolarised to a slight degree (µClear®) (Fig. 4) and the autofluorescence of the microplates is minimised (Fig. 4).

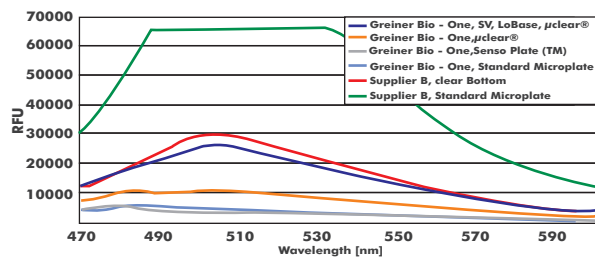


Figure 4: Autofluorescence of different 384 well microplates at an excitation wavelength of 485 nm.

The 96 well µClear® microplates and 384 well µClear® microplates have a film thickness of 190 µm +/- 20 µm. In the 1536 well microplates with a transparent bottom (µClear®) the film thickness is 75µm +/- 10 µm. UVStar® microplates generally have a film thickness of 135 µm +/- 10µm.

3. Black or White?

White microplates are usually used for luminescence measurements (E.g. Luciferase Reporter Assays) and black microplates for fluorescence measurements (e.g. Green Fluorescence Protein). The critical properties in these methods, such as background, autofluorescence or crosstalk are considerably improved by the use of black or white pigmented microplates. The optical and physical properties of the Greiner Bio-One microplates were

investigated in laboratory. Higher pigment concentrations produced a much lower autofluorescence of the microplates. At shorter wavelengths, this influence is more pronounced than at the normal fluorescein wavelength combination of 485 / 520 nm (Fig. 5 and 6.). When comparing different white fractions, the same results were obtained for phosphorescence.

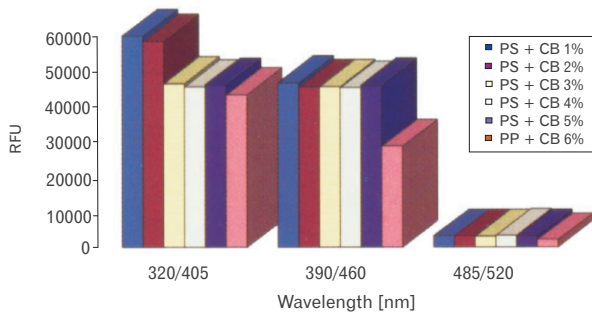


Figure 5: Influence of the black pigment fraction and the wavelength used on the autofluorescence of 96 well microplates

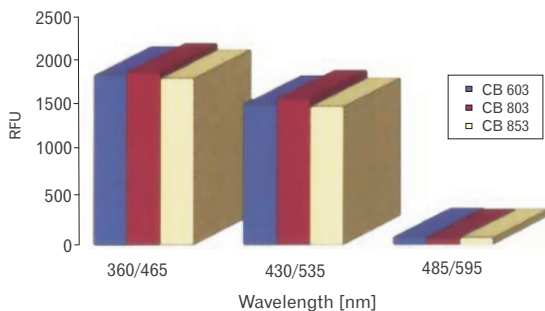


Figure 6: Influence of different black pigments on the autofluorescence of 96 well microplates

4. MICROLON[®], FLUOTRAC[™], LUMITRAC[™]

MICROLON[®], FLUOTRAC[™] and LUMITRAC[™] are standing for the quality of Greiner immunology products. MICROLON[®] are clear microplates for transmission measurements. FLUOTRAC[™] are black microplates for fluorescence measurements. LUMITRAC[™] are white microplates for luminescence measurements.

MICROLON[®] 600, FLUOTRAC[™] 600 and LUMITRAC[™] 600 are high binding polystyrene surfaces that have been specifically treated to provide an increased protein binding. MICROLON[®] 200, FLUOTRAC[™] 200 and LUMITRAC[™] 200 are medium binding polystyrene surfaces. The polystyrene surface of a medium binding microplate is more hydrophobic than the surface of a high binding microplate, and therefore tends to be more suitable for non polar proteins and peptides. The consistency and reproducibility of our immunology products is constantly evaluated using a competitive ELISA (Fig. 7).

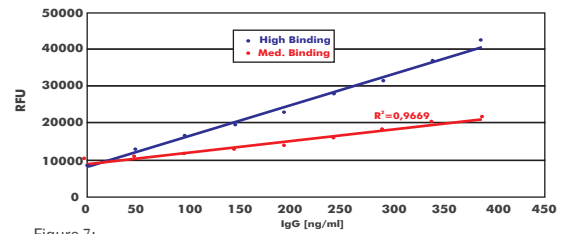


Figure 7: Competitive fluorescence ELISA

In general, high binding microplates are recommended for ELISAs. The protein binding to the polystyrene surface can vary greatly and depends, among other things, on properties such as charge or size. When developing a new assay, it is therefore advisable to compare high binding and medium binding microplates in advance.

5. Cell Culture Products / CELLSTAR[®] / TC

The polystyrene surface of an untreated microplate is hydrophobic and does not offer adherent cell lines a surface conducive to growth. Cell culture microplates from the CELLSTAR[®] range are specifically treated. This treatment leads to polar groups, such as carboxy and hydroxy groups, being incorporated into the plastic surface, making it hydrophilic. This significantly improves the adhesion of cells and the binding of proteins to the plastic surface. CELLSTAR[®] products are consistently evaluated using different cell lines. Cell culture treated microplates

6. Lids for Microplates

Four different polystyrene lid designs are available:

- High profile lids
- High profile lids with condensation rings
- Low profile lids
- Ultra low profile lids

Lids are available in two options, sterile and non-sterile. If microplates are supplied with lids, as in the case of CELLSTAR[®] products, the 96 well microplates always include lids with a high profile ("lid, high profile") and the 384 well microplates always include plate lids with a low profile ("lid, low profile"). In addition all products are also available without lids, which means that the type of lid can be selected as required.

Greiner Bio-One microplates :

- Are manufactured under DIN ISO 9001 guidelines
- Can be traced all the way back to production through a defined LOT number system
- Have uniform external dimensions and tolerances, which are conform to the recommendations of the Society for Biomolecular Screening (SBS)
- Are non-pyrogenic (<0.06 EU/ml) and regularly tested using a FDA-approved LAL - test (Limulus Amoebocyte Assay)
- Are tested by an independent laboratory in a quantitative PCR and are free of:
 - DNases, RNases
 - human DNA
 - RNA/DNA polymerase inhibitors
- Available with barcode labels on request

U-Bottom

The “U” describes the round bottom shapes. U-bottom microplates are ideally suited for agglutination tests.

- No sharp corners to facilitate easy and residue-free pipetting.
- Suitable for +/- analyses

V-Bottom

The “V” stands for the conically tapered well bottom. These microplates are ideally suited for applications in which entire sample volume must be pipetted off.

- For precise pipetting.
- Ideally suited for the storage of samples.
- Suitable for +/- analyses.

F-Bottom/Standard (ST)

The “F” refers to the flat well bottom. This well type is ideal for precise optical measurements. The measuring light source is not deflected by the well profile.

- Excellent optical properties.
- For precise optical measurements.
- For microscopic applications (bottom reading)

F-Bottom/Chimney Well

The standard flat bottom microplate has the same well profile as the chimney well microplate. The difference from the standard plate is the chimney-like arrangement of the wells. Each well stands on its own. Therefore the risk of sample carryover and cross contamination is minimised.

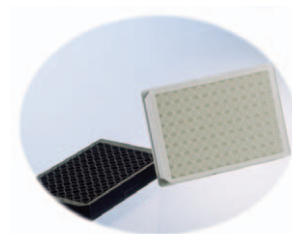
96 well Polystyrene Microplates - solid bottom, clear

- Very high optical quality polystyrene
- Excellent optical surface and frosted areas for easy microscope viewing
- U.V. and flat bottom well profiles available
- Chimney well design, raised wells prevent cross contamination
- Alpha numeric well location
- Also available in sterile version on request.



Cat.-No.	650 101	650 161	651 101	651 161	655 101	655 161
Well profile	U-bottom	U-bottom	V-bottom	V-bottom	F-bottom / ST	F-bottom/ ST
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	clear	clear	clear	clear	clear
Sterile	-	+	-	+	-	+
Lid Cat.-No. (Page No. 51.)	- / 656 101	- / 656 101	- / 656 101	- / 656 101	- / 656 101	- / 656 101
Quantity per bag/case	5/100	2/100	5/100	2/100	5/100	2/100
Price/Each (Rs.)	52.00	82.00	52.00	82.00	52.00	82.00

96 well Polystyrene Microplates (solid bottom, white/black)



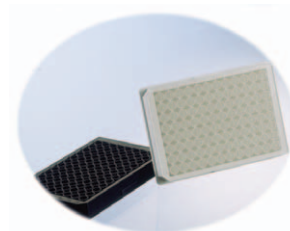
Cat.-No.	655 074	655 075	655 076	655 077
Well profile	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well
Bottom	solid	solid	solid	solid
Colour	white	white	black	black
Binding	LUMITRAC™ 600 high binding	LUMITRAC™ 200 med. binding	FLUOTRAC™ 200 med. binding	FLUOTRAC™ 600 high binding
Sterile	+	-	-	+
Lid	-	-	-	-
Quantity per bag/case	5/40	5/40	5/40	5/40
Price/Each (Rs.)	350.00	350.00	350.00	350.00



96 well Polystyrene Microplates

(μ clear[®], white/black)

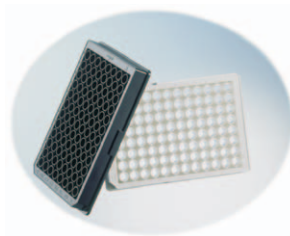
• Cat. No. 655 096 also available in cycloolefin.



Cat.-No.	655 094	655 095	655 096	655 097
Well profile	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well
Bottom	μ clear [®]	μ clear [®]	μ clear [®]	μ clear [®]
Colour	white	white	black	black
Binding	high binding	med. binding	med. binding	high binding
Sterile	+	-	-	+
Lid	-	-	-	-
Quantity per bag/case	10/40	10/40	10/40	10/40
Price/Each (Rs.)	535.00	535.00	575.00	595.00

96 well Half Area Polystyrene Microplates

For many applications in the laboratory, a reduction of the sample volume is an important criterion. For pharmaceutical drug screening, the simplest way of reducing the sample volume is to use high-format microplates, such as the 384 well or 1536 well microplates. However, many research groups in the development field or companies in the field of ELISA diagnostics shy away from changing to high format plates, due to the automation that this entails. The 96 well half area microplates offer an interesting alternative here. They can be pipetted manually without any problem, but at the same time allow a reduction of the sample volume by up to 50%. The 96 well half area microplates are available as black, white, clear and μ clear[®] microplates in ELISA, HTS and cell culture quality.



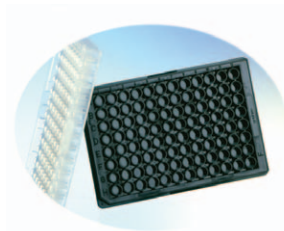
• Reduction of sample volume by up to 50% • Standardised pathlength (1 cm = 170 μ l, 0.5 cm = 80 μ l).

Cat.-No.	675 161	675 101	675 074	675 075	675 077	675 076
Well Profile	half area	half area	half area	half area	half area	half area
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	clear	white	white	black	black
Binding	-	-	high binding	med. binding	high binding	med. binding
Sterile	+	-	+	-	+	-
Lid	-	-	-	-	-	-
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40
Price/Each (Rs.)	210.00	210.00	575.00	575.00	575.00	575.00

Cat.-No.	675 094	675 095	675 097	675 096
Well Profile	half area	half area	half area	half area
Bottom	μ clear [®]	μ clear [®]	μ clear [®]	μ clear [®]
Colour	white	white	black	black
Binding	high binding	med. binding	high binding	med. binding
Sterile	+	-	+	-
Lid	-	-	-	-
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40
Price/Each (Rs.)	750.00	750.00	750.00	750.00

96 well Polypropylene Microplates - U-bottom/Chimney well

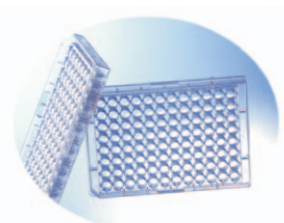
• Uniform external dimensions • Well to well spacing 9 mm • Alphanumeric well coding • High chemical resistance • High temperature resistance (- 196 °C to + 121 °C) • Sealable with adhesive film and heat sealer • Sealable with CapMats.



Cat.-No.	650 201	650 261	650 207	650 209
Well Profile	U-bottom /chimney well	U-bottom /chimney well	U-bottom /chimney well	U-bottom /chimney well
Bottom	solid	solid	solid	solid
Colour	natural	natural	white	black
Binding	-	-	-	-
Sterile	-	+	-	-
Lid	-	-	-	-
Quantity per bag/case	10 / 100	10 / 100	10 / 100	10 / 100
Price/Each (Rs.)	160.00	195.00	195.00	195.00

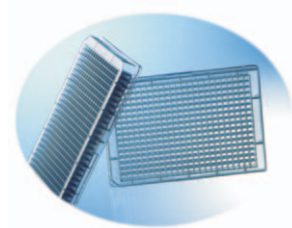
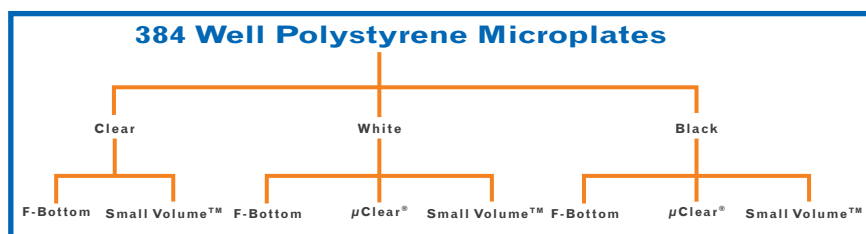
96 well Polypropylene Microplates

• Uniform external dimensions • Well to well spacing 9 mm • Alphanumeric well coding • High chemical resistance • High temperature resistance (- 196° C to + 121° C) • Sealable with adhesive film and heat sealer • Sealable with CapMats.



Cat.-No.	655 201	655 207	655 209	651 201	651 207	651 209
Well profile	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	V-bottom chimney well	V-bottom chimney well	V-bottom chimney well
Bottom	solid	solid	solid	solid	solid	solid
Colour	natural	white	black	natural	white	black
Binding	-	-	-	-	-	-
Sterile	-	-	-	-	-	-
Lid	-	-	-	-	-	-
Quantity per bag/case	10/100	10/100	10/100	10/100	10/100	10/100
Price/Each (Rs.)	185.00	235.00	235.00	170.00	235.00	235.00

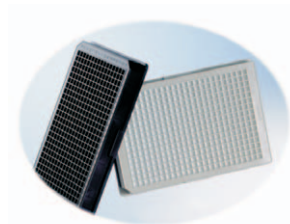
384 Well Polystyrene Microplates - solid bottom, clear



Cat.-No.	781 101	781 061	781 162	781 185	781 186
Well Profile	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	solid	solid
Colour	clear	clear	clear	clear	clear
Binding	-	high binding	-	-	-
Sterile	-	+	+	+	+
Lid	-	-	-	+	+
Quantity per bag/case	10 / 100	10 / 40	10 / 100	1 / 32	8/32
Price/Each (Rs.)	390.00	505.00	475.00	505.00	480.00

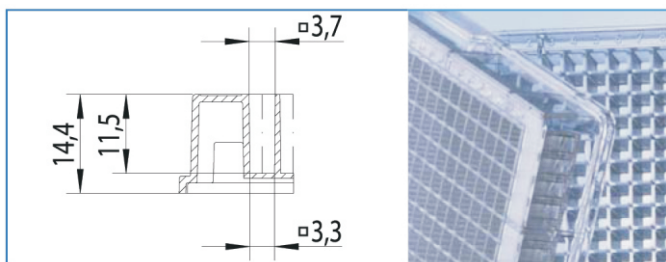
384 Well Polystyrene Microplates solid bottom, white / black

- Sterile
- Non-sterile

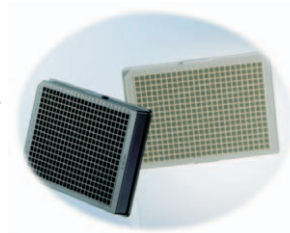


Cat.-No.	781 074	781 075	781 076	781 077
Well Profile	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	solid
Colour	white	white	black	black
Binding	LUMITRAC™ 600 high binding	LUMITRAC™ 200 med. binding	FLUOTRAC™ 200 med. binding	FLUOTRAC™ 600 high binding
Sterile	+	-	-	+
Lid	-	-	-	-
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40
Price/Each (Rs.)	650.00	650.00	650.00	650.00

384 Well Polystyrene Microplates - μ Clear®, white / black



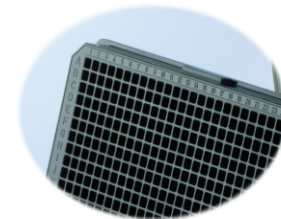
- Well profile: 384 well, polystyrene.
- Total volume: 13 μ l
- Working volume: 15-110 μ l.
- Growth area: 10 mm²



Cat.-No.	781 094	781 095	781 096	781 097
Well Profile	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	μ Clear®	μ Clear®	μ Clear®	μ Clear®
Colour	white	white	black	black
Binding	high binding	med. binding	med. binding	high binding
Sterile	+	-	-	+
Lid	-	-	-	-
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40
Price/Each (Rs.)	950.00	950.00	950.00	950.00

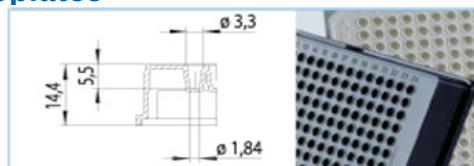
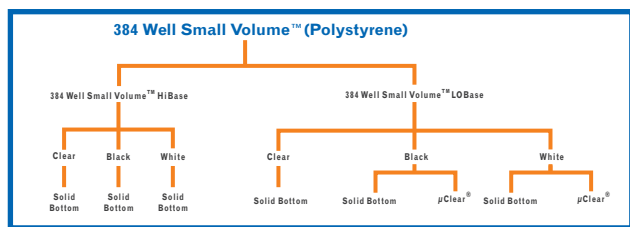
384 Well Polypropylene Microplates solid bottom, natural/ white / black

- Sterile
- Non-sterile



Cat.-No.	781 201	781 207	781 209	781 280	781 287	781 289
Well profile	F-bottom	F-bottom	F-bottom	V-bottom	V-bottom	V-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	natural	white	black	natural	white	black
Binding	-	-	-	-	-	-
Sterile	-	-	-	-	-	-
Lid	-	-	-	-	-	-
Quantity per bag/case	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100
Price/Each (Rs.)	505.00	575.00	575.00	450.00	550.00	550.00

384 Well Small Volume™ HiBase Polystyrene Microplates

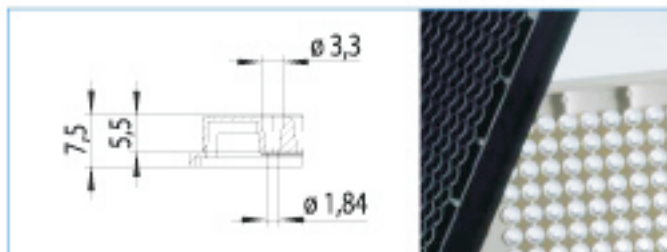


- Well profile : 384 well Small Volume™, HiBase.
- Total Volume : 28 µl
- Working volume: 4-25 µl
- Growth area: 2.7 mm²

Cat.-No.

	784 101	784 075	784 076
Well Profile	small vol.™	small vol.™	small vol.™
Bottom	solid	solid	solid
Colour	clear	white	black
Binding	–	med. binding	med. binding
Sterile/Lid	–/–	–/–	–/–
Quantity per bag/case	10 / 40	10 / 40	10 / 40
Plate design	HiBase	HiBase	HiBase
Price/Each (Rs.)	1050.00	1050.00	1050.00

384 Well Small Volume™ LoBase Polystyrene Microplates



- Well profile : 384 well Small Volume™, LoBase
- Total Volume : 28 µl
- Working volume: 4-25 µl
- Growth area: 2.7 mm²

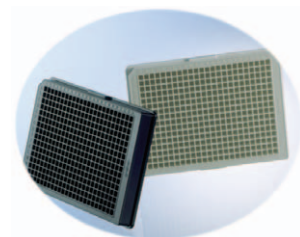
Cat.-No.

	788 101	788 161	788 075	788 076	788 095	788 096
Well profile	Small Vol.™	Small Vol.™	Small Vol.™	Small Vol.™	Small Vol.™	Small Vol.™
Bottom	solid	solid	solid	solid	µclear®	µclear®
Colour	clear	clear	white	black	white	black
Binding	–	–	med. binding	med. binding	med. binding	med. binding
Sterile/Lid	–/–	+/-	–/–	–/–	–/–	–/–
Quantity per bag/case	10 / 80	10 / 80	10 / 80	10 / 80	10 / 80	10 / 80
Plate design	LoBase	LoBase	LoBase	LoBase	LoBase	LoBase
Price/Each (Rs.)	1250.00	1100.00	1250.00	1050.00	1400.00	1400.00

384 Deep Well Small Volume™ Polypropylene Microplate

The 384 Deep Well Small Volume™ polypropylene microplate offers new possibilities for drug discovery:

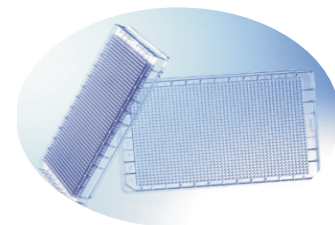
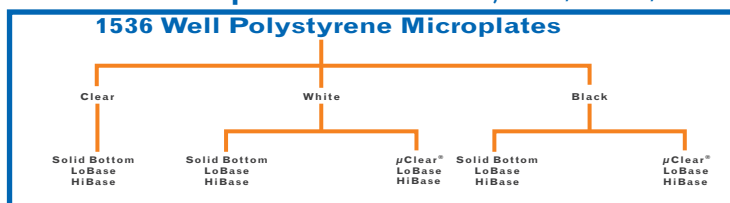
- Standardised plate geometry (conform to ANSI 1-2004)
- Large working volume from 1 µl to 90 µl.
- Dead volume below 1 µl.
- Focused liquid samples.
- No loss of valuable compounds.



Cat.-No.

	784 201
Well Profile	small vol.™
Bottom	solid
Colour	natural
Sterile	–
Lid	–
Quantity per bag/case	10 / 100
Plate design	Deepwell
Price/Each (Rs.)	675.00

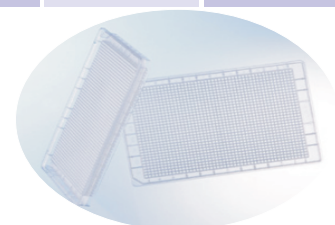
1536 Well HiBase Microplates - solid bottom, clear / white / black



Cat.-No.	782 101	782 061	782 075	782 074	782 076	782 077
Well Profile	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	clear	white	white	black	black
Binding	–	MICROLON®600 high binding	LUMITRAC™ 200 med. binding	LUMITRAC™ 600 high binding	FLUOTRAC™ 200 med. binding	FLUOTRAC™ 600 high binding
Sterile	–	+	–	+	–	+
Lid	–	–	–	–	–	–
Quantity per bag/case	15 / 60	15 / 60	15 / 60	15 / 60	15 / 60	15 / 60
Plate Design	HiBase	HiBase	HiBase	HiBase	HiBase	HiBase
Price/Each (Rs.)	3500.00	3500.00	3500.00	3500.00	3500.00	3500.00

1536 Well HiBase Microplates - μclear® / white / black

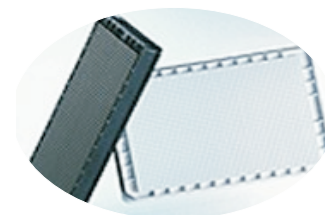
- Sterile
- Non-sterile



Cat.-No.	782 094	782 095	782 096	782 097
Well Profile	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	μclear®	μclear®	μclear®	μclear®
Colour	white	white	black	black
Binding	high binding	med. binding	med. binding	high binding
Sterile	+	–	–	+
Lid	–	–	–	–
Quantity per bag/case	15 / 60	15 / 60	15 / 60	15 / 60
Plate Design	HiBase	HiBase	HiBase	HiBase
Price/Each (Rs.)	7500.00	7500.00	7500.00	7500.00

1536 Well LoBase Microplates - solid bottom, clear, μclear® / white / black

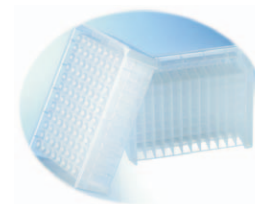
- Cell Culture Microplate
- 1536 Well SCREENSTAR Microplate
- Available in high binding quality on request



Cat.-No.	783 101	783 075	783 076	783 095	783 096
Well Profile	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	μclear®	μclear®
Colour	clear	white	black	white	black
Binding	–	LUMITRAC™ 200 med. binding	FLUOTRAC™ 200 med. binding	med. binding	med. binding
Sterile	–	–	–	–	–
Lid	–	–	–	–	–
Quantity per bag/case	15 / 60	15 / 60	15 / 60	15 / 60	15 / 60
Plate Design	LoBase	LoBase	LoBase	LoBase	LoBase
Price/Each (Rs.)	51000.00	5250.00	6300.00	7500.00	7500.00

96 & 384 Well MASTERBLOCK®

- Uniform external dimensions and tolerances • Alphanumeric well coding • High chemical resistance
- High temperature resistance (-196 °C to + 121 °C) • Sealable with adhesive films, heat sealer and CapMats • Available in natural, red, green, blue and yellow • Also available in sterile or non-sterile.



Cat.-No.	786 261	780 261	780 201	780 270	780 271	781 270*	781 271*
Volume [ml]	0.5	1	1	2	2	–	–
Well profile	96 / V-bottom	96 / U-bottom	96/U-bottom	96 / V-bottom	96 / V-bottom	384/V-bottom	384/V-bottom
Bottom	solid	solid	solid	solid	solid	solid	solid
Colour	natural	natural	natural	natural	natural	natural	natural
Binding	–	–	–	–	–	–	–
Sterile	+	+	–	–	+	–	+
Lid	–	–	–	–	–	–	–
Suitable CapMats, Cat.- No.	381 070, 381 061	381 070, 381 061	381 070, 381 061	381 080, 381 081	381 080, 381 081	–	–
Quantity per bag/case	1/80	1 / 50	1 / 50	1 / 50	1 / 50	6 / 60	6/60
Price/Each (Rs.)	625.00	625.00	625.00	625.00	625.00	625.00	625.00

*deep well

1536 Deep Well Polypropylene Microplate

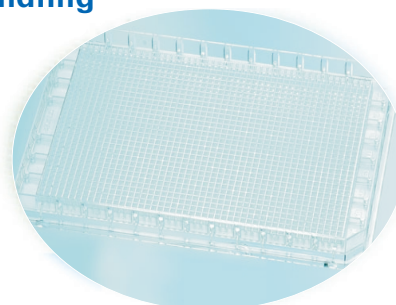
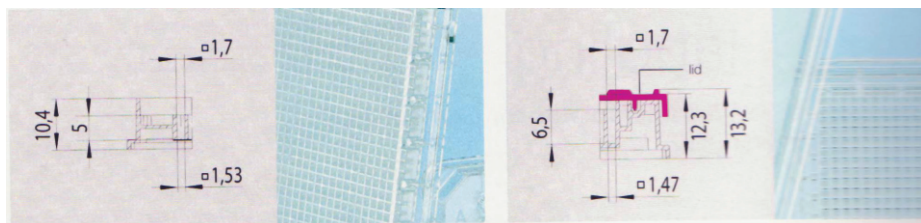
- Uniform external dimensions and tolerances • Alphanumeric well coding • High chemical resistance
- High temperature resistance (-196° C to + 121° C) • Sealable with adhesive films and heat sealer.



Cat.-No.	782 261	782 270
Well Profile	V-bottom	V-bottom
Bottom	solid	solid
Colour	natural	natural
Plate design	Deep well	Deep well
Sterile	+	–
Lid	–	–
Quantity per bag/case	15 / 60	15 / 60
Price/Each (Rs.)	5400.00	5100.00

384 well and 1536 Well Storage Plates for Acoustic Liquid Handling

- Stringent production specifications for a constant bottom quality
- No electrostatic charge on the microplates



Cat.-No.	781 201-906	793 855	782 855	792 870-906
Well format	384 well	384 well	1536 well	1536 well
Well profile	F-bottom	small volume™	F-bottom	F-bottom
Material	polypropylene	cycloolefin	cycloolefin	cycloolefin
Bottom	solid	solid	solid	solid
Colour / Sterile	natural / –	clear / –	clear / –	clear / –
Lid	–	–	–	Cat. -No. 792 891
Quantity per bag/case	10 / 100	15/60	15/60	15 / 60
Plate Design	–	–	LoBase	–
Price/Each (Rs.)	595.00	On request	5500.00	5400.00

→ New

→ New

Non-Binding Microplates

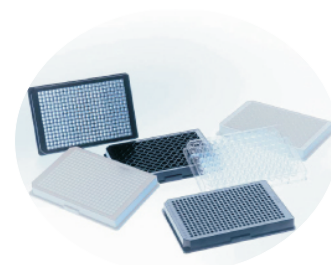
Microplates with Non-Binding Surface Properties for Biochemical Assays

High quality microplates with well-defined properties are essential prerequisites for reproducible results in advanced drug discovery. In addition to format and pigmentation, determining the best microplate surface for use within a specific application is a critical factor for successful high-throughput screening.

Polystyrene microplates with medium binding surfaces are commonly used for homogeneous biochemical HTS assays. Manufactured of carefully selected raw material batches, medium binding microplates demonstrate low reproducible biomolecule binding. As medium binding microplate surfaces are not physically modified, their surface characteristics are representative of pure polystyrene.

Characteristic features of the non-binding surface area:

- Ultra low non-specific biomolecular binding properties (proteins, DNA, RNA)
- Long-term surface stability without degradation or leaching
- Higher assay sensitivity with reduced background and improving signal-to noise ratio.



96 Well Non-Binding Microplates

Cat.-No.	650 901	651 901	655 901	655 904	655 900	655 903	655 906
Well format	96 well	96 well	96 well	96 well	96 well	96 well	96 well
Well profile	U-bottom	V-bottom	F-bottom / chimney well	F-bottom / chimney well	F-bottom / chimney well	F-bottom / chimney well	F-bottom / chimney well
Bottom	solid	solid	solid	solid	solid	μClear®	μClear®
Colour	clear	clear	clear	white	black	white	black
Binding	non-binding	non-binding	non-binding	non-binding	non-binding	non-binding	non-binding
Lid / Sterile	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40
Price/Each (Rs.)	395.00	395.00	395.00	445.00	445.00	650.00	650.00

384 Well Non-Binding Microplates

Cat.-No.	781 901	781 904	781 900	781 903	781 906	784 904	784 900
Well format	384 well	384 well	384 well	384 well	384 well	384 well	384 well
Well profile	F-bottom	F-bottom	F-bottom	F-bottom	F-bottom	Small Volume™	Small Volume™
Bottom	solid	solid	solid	μClear®	μClear®	solid	solid
Colour	clear	white	black	white	black	white	black
Binding	non-binding	non-binding	non-binding	non-binding	non-binding	non-binding	non-binding
Lid / Sterile	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40	10 / 40
Plate Design						HiBase	HiBase
Price/Each (Rs.)	560.00	695.00	625.00	1000.00	1000.00	1125.00	1075.00

1536 Well Non-Binding Microplates

Cat.-No.	782 904	782 900
Well format	1536 well	1536 well
Well profile	F-bottom	F-bottom
Bottom	solid	solid
Colour	white	black
Binding	non-binding	non-binding
Lid / Sterile	- / -	- / -
Quantity per bag/case	15 / 60	15 / 60
Plate Design	HiBase	HiBase
Price/Each (Rs.)	On request	6400.00

↳New

↳New

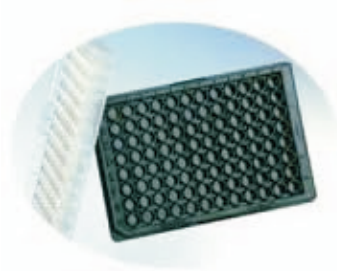
Streptavidin-coated Microplates

Streptavidin-coated solid phases serve as reliable binding surfaces for all types of biotinylated molecules. Numerous ligands can be biotinylated simply and due to the low molecular weight of biotin (244 Da) the functionality of the molecules is normally not impaired.

Thus streptavidin-coated solid phases make it possible to rapidly isolate, determine and quantify components from a reaction mixture. By immobilising the biotinylated substance, it is also possible to reproduce complete reaction chains on a streptavidin solid phase, e.g. enzyme immunoassays, enzyme activity assays, DNA hybridisation techniques, quantification of PCR products and receptor/ligand studies. The high-purity streptavidin is bound to the plate surface in a uniform and stable layer.

The coefficient of variation from well to well is under 5 % for 96 well microplates and under 8 % for 384 microplates.

The streptavidin solid phase is treated with an additional blocking step in order to minimise any unspecific binding, therefore, "pre-blocking" of plates is not necessary. The high stability of the coating and the high affinity between streptavidin and biotin enables unusually stringent washing conditions, which have a positive effect on the signal-to-noise ratio of the measurement.



	96 Well Microplate	384 Well Microplate
Streptavidin-coating (in relation to volume)	300 µl	90 µl
Biotin binding capacity*)	> 5ng/well or > 20 pmol/well	> 1.5 ng/well or > 6 pmol/well

*) Biotin binding capacity determined by competition test.

- Shelf-life: 3 years at room temperature
- Pre-blocking: All plates are pre-blocked and ready-to-use

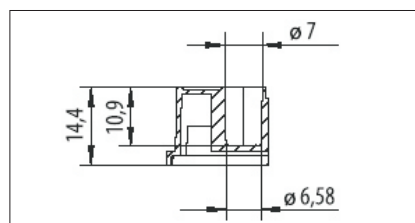


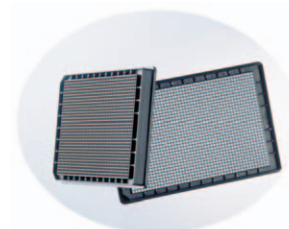
Figure 1:
Well profile : 96 well, C-bottom, polystyrene

96, 384 Well Streptavidin-coated Microplates - solid bottom, clear/white/black

Cat.-No.	655 990	655 995	655 997	781 990	781 995	781 997
Well format	96 well	96 well	96 well	384 well	384 well	384 well
Well profile	C-bottom	C-bottom	C-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	white	black	clear	white	black
Streptavidin-coating	+	+	+	+	+	+
Lid / Sterile	-/-	-/-	-/-	-/-	-/-	-/-
Quantity per bag/case	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40	5 / 40
Price/Each (Rs.)	5750.00	5750.00	5750.00	13000.00	13000.00	13000.00

SensoPlates™ (Glass Bottom Microplates)

The SensoPlates™ was developed in a complete product line consisting of 24, 96, 384 and 1536 well glass bottom formats. All SensoPlates™ consist of an optically clear borosilicate glass bottom with a light path of 175 +/- 15 µm and a black polystyrene frame. The glass bottom allows transmission measurements in the wavelength range above 350 nm.



24, 96, 384, 1536 Well SensoPlate™

Cat.-No.	662 892	655 892	781 892	788 896	782 892	783 892
Well format	24 well	96 well	384 well	384 well	1536 well	1536 well
Well profile	F-bottom	F-bottom	F-bottom	Small Vol™	F-bottom	F-bottom
Bottom	glass	glass	glass	glass	glass	glass
Colour	black	black	black	black	black	black
Sterile	+	+	+	+	+	+
Lid	+	+	+	-	+	+
Quantity per bag/case	1 / 12	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16
Plate Design	-	-	-	LoBase	HiBase	LoBase
Price/Each (Rs.)	5100.00	5100.00	9500.00	9500.00	13500.00	13500.00

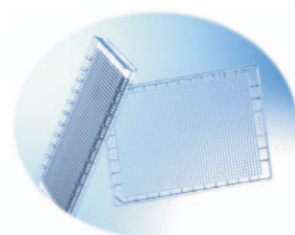
384, 1536 Well SensoPlate™ Plus

Cat.-No.	781 856	783 856
Well format	384 well	1536 well
Well profile	F-bottom	F-bottom
Bottom	glass	glass
Colour	black	black
Sterile	–	–
Lid	–	–
Quantity per bag/case	1 / 16	1 / 16
Plate Design	extra LoBase	extra LoBase
Price/Each (Rs.)	9500.00	13500.00

96, 384 Well UV-Star® Microplates

UV/VIS spectroscopy is a classical analytical method for determining the chemical constitution of a substance and its concentration in aqueous solution. UV/VIS spectroscopy is usually conducted in quartz glass cuvettes. The adaptation of the patented μ Clear® process technology to a new innovative UV-transparent material has made it possible to produce microplates that extend the transmission range up to 230 nm

• Optical window down to 230 nm ideal for nucleic acid determinations at 260 nm / 280 nm. • For measurements of protein concentration at 280 nm.



Cat.-No.	655 801	675 801	781 801
Well format	96 well	96 well	384 well
Well profile	F-bottom/ chimney well	half area	F-bottom
Bottom	μ clear®	μ clear®	μ clear®
Colour	clear	clear	clear
Sterile	–	–	–
Lid	–	–	–
Quantity per bag/case	10 / 40	10 / 40	10 / 40
Price/Each (Rs.)	975.00	1200.00	2950.00

96 Well ELISA Microplates - U-Bottom / V-Bottom / F-Bottom, Half Area

ELISA (Enzyme-Linked Immunosorbent Assay) is probably the most widely used biochemical method in laboratory analysis and diagnostics. Analytes such as peptides, proteins, antibodies and hormones can be detected selectively in low concentrations among a multitude of other substances and be quantified. Additionally, ELISAs are rapid, sensitive, cost-effective and can be performed in a high-throughput manner. ELISA is used in a variety of different assay types (e.g. direct ELISA, indirect ELISA, sandwich ELISA, competitive ELISA). Nevertheless, all ELISA variants are based on the same principle, the binding of one assay component – antigen or specific antibody – to a solid surface and the selective interaction between both assay components.

Brand Name	Surface property	Colour
MICROLON® 200	Medium binding	clear
MICROLON® 600	High binding	clear
FLUOTRAC™ 200	Medium binding	black
FLUOTRAC™ 600	High binding	black
LUMITRAC™ 200	Medium binding	white
LUMITRAC™ 600	High binding	white

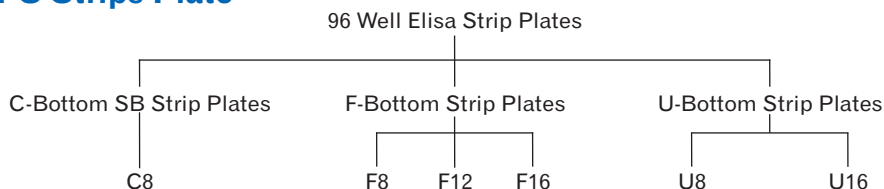
Assignment of brand names and properties of ELISA microplates

Cat.-No.	650 001	650 061	651 001	651 061	655 093
Well format	96 well	96 well	96 well	96 well	96 well
Well profile	U-bottom	U-bottom	V-bottom	V-bottom	F-bottom
Binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	Low Radiation high binding
Colour	clear	clear	clear	clear	clear
Lid	–	–	–	–	–
Quantity per bag/case	5 / 40	5 / 40	5 / 40	5 / 40	1/400
Price/Each (Rs.)	90.00	105.00	135.00	160.00	235.00

96 Well ELISA Microplates - F-Bottom/Half Area

Cat.-No.	655 001	655 061	655 080	655 081	675 001	675 061
Well format	96 well	96 well	96 well	96 well	96 well	96 well
Well profile	F-bottom / ST	F-bottom / ST	F-bottom / chimney well	F-bottom / chimney well	half area	half area
Binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding
Colour	clear	clear	clear	clear	clear	clear
Lid	–	–	–	–	–	–
Quantity per bag/case	5 / 40	5 / 40	5 / 40	5 / 40	10/40	10/40
Price/Each (Rs.)	90.00	105.00	135.00	160.00	250.00	285.00

96 Well ELISA PS Strips Plate



Microplates in strip format offer the advantage of greater flexibility in diagnostics. Individual strips can be removed from the support frame so that the number of tests to be performed can be adjusted to the number of samples, and is not predetermined by the microplate format used. In addition, the individual strips of a microplate can be subjected to a wide variety of different test conditions.

1. C-Bottom SB (Single-break) Strip Plates

The “C” describes a flat-bottom profile with rounded corners. The rounded corners mean that the individual wells can be pipetted without leaving a residue, and the flat bottom still enables precise optical measurements. C-bottom SB strips are supplied as twelve 8 well strips, in a support frame with 96 spaces (12 x 8 matrix). The individual wells can be broken off separately (“single-break” option) and the number of tests performed can thus be precisely adjusted to the number of samples.

2. U-Bottom Strip Plates

96 well strip plates with a round bottom (U-bottom, are available as both 8 well and 16 well strips. The “U” describes the round bottom form. U-bottom strip plates are ideally suited for agglutination tests.

- No corners, therefore simple and clean pipetting
- Suitable for +/- analyses

3. F-Bottom Strip Plates

The “F” stands for the flat bottom of the wells. This well type is ideal for the most precise optical measurements as the measuring light beam is not deflected by the well profile. F-bottom strip plates are available in clear polystyrene (MICROLON®) and additionally in black (FLUOTRAC™) and white (LUMITRAC™).

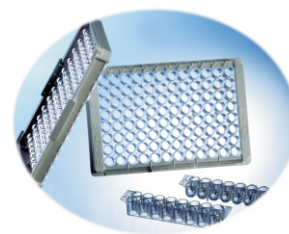
96 Well ELISA PS Strips Plate - U8 and F8 Strip Plates

Cat.-No.	767 070	767 071	762 070	762 071	762 075
Description	strip plate	strip plate	strip plate	strip plate	strip plate
Quantity x strip design	12 x U8 strips	12 X U8 strips	12 x F8 strips	12 x F8 strips	12 x F8 strips
Well profile	U-bottom	U-bottom	F-bottom	F-bottom	F-bottom
Binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	LUMITRAC™ 200 med. binding
Colour of strips	clear	clear	clear	clear	white
Quantity per bag/case	5 / 100	5 / 100	5 / 100	5 / 100	5 / 100
Price/Each (Rs.)	500.00	525.00	295.00	295.00	625.00

Cat.-No.	762 074	762 076	762 077	754 101	705 185
Description	strip plate	strip plate	strip plate	strip frames	strip frames
Quantity x strip design	12 x F8 strips	12 X F8 strips	12 x F8 strips	–	–
Well profile	F-bottom	F-bottom	F-bottom	–	–
Binding	LUMITRAC™ 600 high binding	FLUOTRAC™ 200 med. binding	FLUOTRAC™ 600 high binding	–	–
Colour of strips	white	black	black	white	white
Quantity per bag/case	5 / 100	5 / 100	5 / 100	400	400
Price/Each (Rs.)	650.00	625.00	650.00	95.00	125.00

F12, F16 and U16 Strip Plates- clear

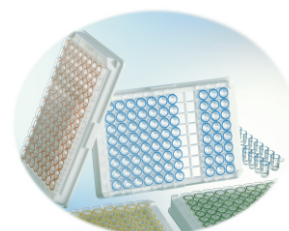
- Clear F12 Strip Plates cell culture treated on request.
- Black and white F16 Strip Plates on request.
- Black and white U16 Strip Plates on request
- Strips mounted in frame



Cat.-No.	701 070	701 071	756 070	756 071	754 070	754 061
Description	strip plate	strip plate	strip plate	strip plate	strip plate	strip plate
Quality x strip design	8 x F12 strips	8 x F12 strips	6 x F16 strips	6 x F16 strips	6 x U16 strips	6 x U16 strips
Well profile	F-bottom	F-bottom	F-bottom	F-bottom	U-bottom	U-bottom
Binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding
Colour of strips	clear	clear	clear	clear	clear	clear
Quantity per bag/case	5 / 100	5 / 100	5 / 100	5 / 100	5 / 100	5 / 100
Price/Each (Rs.)	435.00	455.00	385.00	420.00	385.00	420.00

C8 Single-break & 96 Well Polystyrene Strip Plates - clear

- C8 Single-break Strip Plates without colour coding cell culture treated on request.
- Strips mounted in frame



Cat.-No.	705 070	705 071
Description	SB strip plate	SB strip plate
Quantity x strip design	12 x C8 strips	12 x C8 strips
Well profile	C-bottom	C-bottom
Binding	MICROLON® 200 med. binding	MICROLON® 600 high binding
Colour of strips	clear	clear
Colour coding on well rim	-	-
Quantity per bag/case	5 / 100	5 / 100
Price/Each (Rs.)	285.00	285.00

Immuno Tubes

Immuno tubes are often used for determining hormone levels, for example TSH (thyroid stimulating hormone), With a length of 75mm and diameter of 12mm with and without a "star", they are available in both MICROLON® 200 & MICROLON® 600 quality.

The so-called "star" at the bottom of the tubes serves to increase the surface and thus makes it possible to bind larger amounts of antigens or antibodies.



Cat.-No.	115 001	115 061	115 070	115 071
Bottom design	round	round	round with star	round with star
Ø [mm] x heigh [mm]	12 x 75	12 x 75	12 x 75	12 x 75
Volume [ml]	5	5	5	5
Binding	MICROLON® 200 med. binding	MICROLON® 600 high binding	MICROLON® 200 med. binding	MICROLON® 600 high binding
Quantity per bag/case	250 / 2000	250 / 2000	250 / 2000	250 / 2000
Prices for Tubes/Each (Rs.)	5.00	6.00	5.00	6.00

HLA / Microtest Plates (Terasaki Plates)- 60 Well and 72 Well Terasaki Plates

Microtest Plates (Terasaki Plates)

The human leucocyte antigen (HLA) system is the major histo- compatibility complex (MHC) of humans and is composed of the two polymorphic classes HLA - I (A, B, and C) and HLA - II (DR, DQ and DP). Basically, four different areas of indication can be distinguished for HLA typing:

- Transplantation • Transfusion • Disease Association • Forensic

The serological determination of HLA proteins of the HLA-A, -B, -C and -DR genetic positions is primarily performed with the complement-dependent microlymphocytotoxicity test (LCT) or Terasaki test, which has been standardised since 1964. The basis for this test method is the cytolysis of the lymphocytes to be tested, which is caused by the antibody - antigen mediated activation of the complement system. Permeabilised lymphocytes are generally stained with chromophores or fluorophores and evaluated microscopically.



Greiner Bio-One HLA microtest plates (Terasaki plates) are suitable for all applications for serological determination of HLA antigens. The plates are supplied either with 60 or 72 wells, the plate dimensions are staying the same. The individual wells have a volume of 10 μ l.

Cat.-No.	653 180	659 180	654 180	769 190
Well format	60 well	60 well	72 well	72 well
Working Volume per well [μ l]	10	10	10	10
Max. volume per well [μ l]	11.5	11.5	11.5	11.5
Stackable	-	+	-	+
TC surface treatment	+	+	+	+
Lid	+	+	+	+
Quantity per bag/case	10 / 270	10 / 200	10 / 270	150 ^{*)} / 1200
Price/Each (Rs.)	115.00	120.00	125.00	125.00

*) folding carton

Petri Dishes

- Available in different sizes • Easy stacking • Vented for improved gas exchange and non vented for long incubation period • Sterilised dishes available on request. • Manufactured from crystal clear polystyrene for optimal analysis by microscopy.

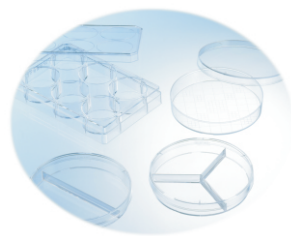


Cat.-No.	627 102	628 102	633 180	663 102	664 102	639 102
Description	petri dish	petri dish	petri dish	petri dish	petri dish	petri dish
Ø [mm] x height [mm]	35 x 10	60 x 15	94 x 16	100 x 15	100 x 20	145 x 20
Vents	+	+	+	+	+	+
Heavy design	-	-	-	+	+	-
Quantity per bag/case	10 / 740	20 / 600	20 / 480	20 / 420	15 / 360	15 / 120
Price/Each (Rs.)	17.00	17.00	12.00	18.50	23.00	58.00

Cat.-No.	628 161	633 181
Description	petri dish	petri dish
Ø [mm] x height [mm]	60 x 15	94 x 16
Vents	+	+
Sterile / Heavy design	+ / -	+ / -
Quantity per bag/case	20 / 600	20 / 480
Price/Each (Rs.)	16.00	16.00

Petri Dishes - Special Models / Germ Count Dish / Macroplate

Petri Dishes - Special Models : • Divided dishes for comparative measurements / conditions or when using different agar systems • On request available in sterile form • With vents • Easy stacking. **Germ Count Dish :** • Graduation and division into 10 mm squares to enable quick and easy analysis • With vents • Easy stacking. **Macroplate :** • With 35 mm diameter per well, it is a practical and space-saving alternative to six standard petri dishes • Numeric coding allows easier identification of the wells.



Cat.-No.	635 102	637 102	633 175	657 102
Description	petri dish	petri dish	germ count dish	M. Plate with lid
Special feature	2 compartments	3 compartments	graduated	6 well plate
Ø [mm] x height [mm]	94 × 15	94 × 15	94 × 16	–
Volume / well [ml]	20	12	–	16
Vents	+	+	+	+
Quantity per bag/case	20 / 480	20 / 480	20 / 480	2 / 100
Price/Each (Rs.)	16.00	17.00	17.50	125.00

Contact Dishes / Petri Dish Square

• Optimised dish design produces a meniscus on the agar surface when the contact dish is filled
• Sterilised by irradiation • Vented and non vented options • Graduation and division into 10 mm squares to enable quick and easy analyses



Cat.-No.	629 161	629 180	688 102	670 102
Description	contact dish	contact dish	petri dish	OneWellPlate™
Special feature	graduated bottom	graduated bottom	square	microplate format
Ø [mm] x height [mm]	65 × 15	65 × 15	(120 × 120) × 17	(127.8×85.5)×14.4
Sterile	+	+	–	–
Vents	–	+	+	+
Quantity per bag/case	20 / 600	20 / 600	10 / 240	8/32
Price/Each (Rs.)	40.00	40.00	110.00	450.00

→ New

Faeces / Sputum Containers

• Available in different sizes • Range of caps and spoons • Easy and safe handling • CE - marked
• Bottom part of containers manufactured from crystal clear polystyrene



Cat.-No.	430 102	431 102	432 102	433 102	434 102	443 102
Description	faeces container	faeces container	sputum container	faeces container	faeces container	faeces container
Ø [mm] × height [mm]	18.5 × 61	22 × 63	22 × 63	22 × 63	41 × 57	24 × 90
Volume [ml]	10	16	16	16	52	30
Screw cap with PS spoon	–	–	–	–	–	+
PE push - in cap with PE spoon	+	–	–	+	+	–
PE push - in cap with PS spoon	–	+	cap w/o spoon	–	–	–
Quantity per bag/case	1700	1200	1200	1200	780	400
Price/Each (Rs.)	16.00	16.00	15.00	18.00	15.00	62.00

Polystyrene Tubes - Round Bottom

- Appropriate grip stoppers for each tube are listed in the table with their Cat.-No.
- Available in different sizes
- High clarity
- Available in different packaging units.



Cat.-No.	103 101	109 101	136 101	160 101	187 101	169 101	115 101
Ø [mm] x height [mm]	10.5 x 40	11 x 70	14 x 100	16 x 100	17 x 100	16 x 152	12 x 75
Volume [ml]	2	4	10	12	14	20	5
Sterile	-	-	-	-	-	-	-
Grip stopper, Cat. - No.	301 321	302 321	307 321	310 321	318 321	310 321	303 321
Quantity per bag/case	500 / 3000	240 / 2880	1400	1600	1500	1500	250/2000
Prices for Tubes/Each (Rs.)	3.00	3.50	5.00	5.00	5.00	12.50	2.95
Prices for Caps/Each (Rs.)	3.00	2.75	4.50	4.75	4.75	3.00	3.00

Polystyrene & Polypropylene Tubes - Two position vent stopper / Round Bottom

- High Clarity
- Also available with graduation
- Available in different sizes and packaging units
- Sterile

Two position vent stopper fulfils two functions

1. When attached lightly, this enables a uniform ventilation of the tube contents.
2. When attached firmly, by pressing in the stopper further, an airtight closure of the tube is achieved.



Cat.-No.	120 180	191 180	115 261	184 261	187 261
Bottom design	round	round	round	round	round
Material	polystyrene	polystyrene	polypropylene	polypropylene	polypropylene
Ø [mm] x height [mm]	12.4 x 75	18 x 95	12 x 75	17 x 77	18 x 95
Volume [ml]	4.5	14	5	12	14
Two position vent stopper	+	+	+	+	+
Sterile / Graduation	+ / -	+ / -	+ / +	+ / +	+ / +
Writing area	-	-	-	-	+
Quantity per bag/case	25 / 2000	25 / 1000	1 / 1000	1 / 1000	1 / 800
Price/Each (Rs.)	21.00	24.00	24.00	30.00	24.00

Polypropylene Tubes - Round Bottom

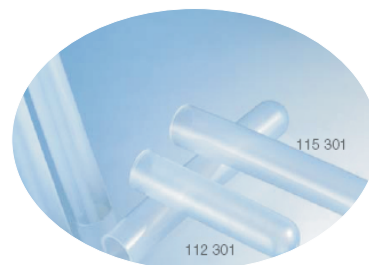
- Polypropylene tubes have particularly good thermal, chemical and mechanical stability.
- Material is ideally suited for the storage of samples.
- Available in different sizes.
- Appropriate grip stoppers for each tube are listed in the table with their Cat.-No.



Cat.-No.	102 201	102 261	102 270	975 502
Ø [mm] x height [mm]	8.5 x 44	8.5 x 44	8.5 x 44	storage rack
Volume per tube [ml]	1.3	1.3	1.3	-
Sterile	-	+	-	-
Tube Chain with attached strip cap	-	+	+	-
Quantity per bag/case	1000	1000	1000	1
Price/Each (Rs.)	10.50	29.00	25.00	3000.00

Polyethylene Tubes - Round Bottom

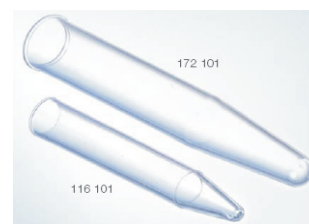
- Available in two different sizes • without closure • Polyethylene tubes are characterised by good thermal and chemical resistance • Volume: 4 ml
- Appropriate grip stopper, Cat. -No. 303 321



Cat.-No.	112 301	115 301
Ø [mm] x height [mm]	12 x 55	12 x 75
Volume [ml]	4	5
Sterile	–	–
Grip stopper, Cat. -No.	303 321	303 321
Quantity per bag/case	240 / 3600	250 / 2000
Price for Tubes/Each (Rs.)	4.50	4.50
Prices for Caps/Each (Rs.)	2.25	2.25

Polystyrene Tubes - Conical Bottom

- Available in different sizes and with the appropriate grip stopper • High clarity • The conical bottom makes them ideal for small volumes and for valuable sample material, since the sample collects at the bottom of the tube



Cat.-No.	116 101	172 101
Ø [mm] x height [mm]	12 x 75	16.5 x 103
Volume [ml]	4.5	13
Sterile	–	–
Grip stopper, Cat. -No.	303 321	317 321
Quantity per bag/case	60 / 3600	1500
Price for Tubes/Each (Rs.)	4.25	6.00
Price for Caps/Each (Rs.)	2.50	3.00

Polystyrene Tubes - Screw Cap, Conical / Round Bottom

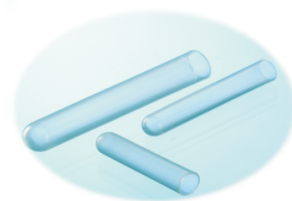
- Culture tubes are available in a number of options - both surface treated for maximum cell attachment and yield and non - surface treated versions • Made of highly transparent polystyrene • Tubes with attached screw cap • Available for volumes 12ml and 14 ml • With or without support skirt.



Cat.-No.	164 180	164 161	163 177	188 171	186 171
Bottom design	conical	conical	round	conical	round
Ø [mm] x height [mm]	16.8 x 100	16.8 x 100	17 x 100	17 x 120	17 x 120
Volume [ml]	12	12	12	15	15
Sterile / Screw Cap	– / –	+ / –	– / black	+ / blue	+ / blue
Bayonet cap*)	white	blue	–	–	–
Graduation / Writing area	– / –	– / –	– / –	+ / +	– / –
Support skirt	+	+	–	–	–
Quantity per bag/case	1300	25 / 1000	900	100/1000	100/1000
Price/Each (Rs.)	18.00	25.00	21.00	36.00	36.00

Polypropylene Tubes - Round Bottom

- Appropriate grip stoppers for each tube are listed in the table with their Cat.-No.
- Available in different sizes
- Polypropylene tubes have particularly good thermal chemical and mechanical stability
- Materials is ideally suited for the storage of samples.



Cat.-No.	112 201	115 201	160 201	187 201
Ø [mm] x height [mm]	12 x 55	12 x 75	16 x 100	17 x 100
Volume [ml]	4	5	12	14
Sterile	-	-	-	-
Grip stopper, Cat. - No.	303 321	303 321	310 321	318 321
Quantity per bag/case	240/3600	250 / 2000	1600	1500
Price for Tubes/Each (Rs.)	3.75	4.25	7.50	7.50
Price for Caps/Each (Rs.)	2.75	2.75	3.25	3.25

Polypropylene Tubes - Natural, Screw Cap, Conical / Round Bottom

- Manufactured from highly transparent polypropylene to provide exceptional mechanical, thermal and chemical stability
- Tubes with attached screw cap
- Graduated, writing area, skirted
- 14 ml, 15ml and 50ml
- Available in different packaging units and types
- All listed conical tubes are non-cytotoxic.



Cat.-No.	163 270	188 261	188 271	188 295	210 261	210 270	227 261	227 270
Bottom design	round	conical	conical	conical	conical	conical	conical	conical
Ø[mm] x height [mm]	16.8 x 100	17 x 120	17 x 120	17 x 120	30 x 115	30 x 115	30 x 115	30 x 115
Volume [ml]	12	15	15	15	50	50	50	50
Sterile/Support Skirt	- / -	+ / -	+ / -	- / -	+ / +	+ / +	+ / -	+ / -
Screw Cap/tube color	white/natural	blue/natural	blue/natural	blue/natural	blue/natural	blue/natural	blue/natural	blue/natural
Graduation	-	blue	blue	blue	blue	blue	blue	blue
Writing area	-	white	white	white	white	white	white	white
Quantity per bag/case	900	50 ^{*)} / 500	100 / 1000	100 / 1000	25 / 450	25 ^{*)} / 300	20 / 500	25 ^{*)} / 300
Price/Each (Rs.)	21.00	19.00	17.50 <small>*)box</small>	12.00 <small>↳New</small>	24.00	32.00 <small>*)box</small>	21.00	34.00 <small>*)box</small>

Multipurpose Containers / Beakers

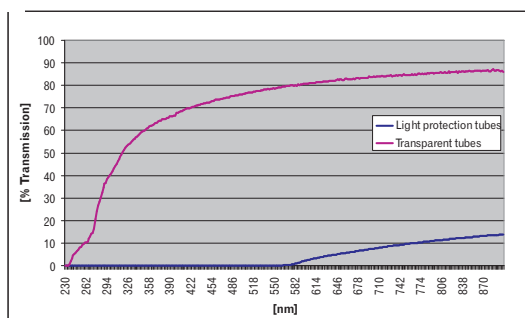
- High clarity
- Available in different sizes
- Can be used universally for academic and medical purposes
- Available in different sizes With or without plain or printed label
- All containers are manufactured aseptically in a class II Clean Room environment - irradiated options are also available
- Plastic or metal cap.



Cat.-No.	203 170
Ø [mm] x height [mm]	24.5 x 40
Total Volume [ml]	15
Working Volume [ml]	10
Label	-
Sterile	-
Snap lid	+
Quantity per bag/case	50 / 500
Price/Each (Rs.)	19.00

Light Protection Tubes

Newly available 15mL and 50mL Centrifuge tubes afford significant protection from light. The amber pigment enables substantial reduction or elimination of light penetration to tube contents, thereby enabling their use for storage of light sensitive materials and applications for light sensitive reactions. As shown in the diagram below light protection tubes reduce the penetration of light over the entire wavelength spectrum, as compared to standard transparent tubes.



Features

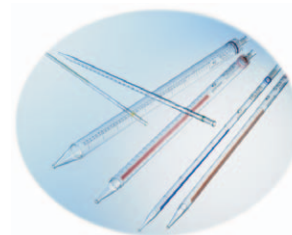
- Material: Pigmented Polypropylene
- 15mL and 50mL Centrifuge Tubes
- Suitable for light sensitive materials and light sensitive reactions
- RCF Rating for # 188 28X
 - Fixed angled rotor: 3500 g
 - Swinging bucket rotor: 15000 g
- RCF Rating for # 227 28X
 - Fixed angled rotor: 3200 g
 - Swinging bucket rotor: 7000 g

Cat.-No.	188 280	188 283	227 280	227 283
Bottom design	conical	conical	conical	conical
∅ [mm] x height [mm]	17 x 120	17 x 120	30 x 115	30 x 115
Volume [ml]	15	15	50	50
Sterile	+	+	+	+
Colour	brown	brown	brown	brown
Screw Cap	blue	blue	blue	blue
Graduation	blue	blue	blue	blue
Writing area	white	white	white	white
Support skirt	-	-	-	-
Quantity per bag/case	100 / 1000	50*/ / 500	20 / 500	25*/ / 300
Price/Each (Rs.)	31.00	36.00	42.00	46.00

CELLSTAR® Serological Pipettes 1, 2, 5, 10, 25, & 50 ml

• A coloured vertical stripe on the 1, 2, 5, 10, 25 and 50ml pipettes makes it easier to read off the volume • Increased volume from negative graduations • Pipette colour code according to international standards simplifies identification • Maximum transparency from high - grade polystyrene • Lot number and best - before date on each pack • All pipettes are supplied with a cotton plug for protection against the suction of liquid into the pipetting device (exception: the aspiration pipette without a cotton plug)

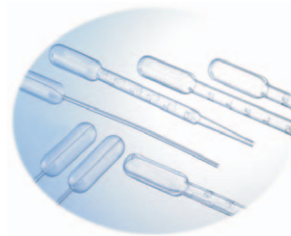
• Sterile • High optical clarity • Maximum accuracy • Design of the pipette tip guarantees drop-free pipetting • Clear, easily legible graduation • A coloured vertical stripe makes it considerably easier to read off the volume.



Cat.-No.	604 181	710 180	606 180	607 180	760 180	768 180
Description	1.0ml pipette	2.0ml pipette	5.0ml pipette	10.0ml pipette	25.0ml pipette	50.0ml pipette
Graduation	1 / 100	1 / 100	1 / 10	1 / 10	2 / 10	1 / 2
Sterile	+	+	+	+	+	+
Packaging	paper/plastic	paper/plastic	paper/plastic	paper/plastic	paper/plastic	paper/plastic
Quantity per bag/case	1 / 1000	1 / 1000	1 / 200	1 / 200	1 / 200	1 / 100
Price/Each (Rs.)	14.50	15.50	21.00	22.00	50.00	86.00

Pipettes - Serum / Pasteur Pipettes

- Ideally suited for the rapid transfer of liquids • Available sterile or non - sterile.



Cat.-No.	700 370	700 361	612 301	612 361
Description	pasteur pipette	pasteur pipette	serum pipette	serum pipette
Length [mm]	153	153	153	153
Working volume [ml]	0.1	0.1	2.5	2.5
Graduation	-	-	+	+
Sterile	-	+	-	+
Quantity per bag/case	1500	25 / 1000	1500	1 / 800
Price/Each (Rs.)	8.00	12.50	8.00	29.00

Pipette Tips & Racks

Pipette tips are a key component in day to day life science research and need to be of a high quality to ensure confidence and consistency in pipetting results. Greiner tips are manufactured from high grade polypropylene to give the optimum in performances and fit.

Additionally polypropylene has a high breaking strength, is dimensionally stable, heat - resistant up to approx. 140°C, i.e., autoclavable, and cold resistant down to - 190° C. All coloured pipette tips are manufactured exclusively with heavy metal free dyes. Pipettes from Greiner Bio-One are therefore guaranteed to be free of heavy metals.



Cat.-No.	765 290	771 290	771 291	739 290	739 291
Description	crystal tips	P10 standard	P10 graduated	Gilson style	Universal
Volume [µl]	0.5 - 20	0.5 - 10	0.5 - 10	10 - 200	10 - 200
Colour	natural	natural	natural	yellow	natural
Graduation	-	-	+	-	+
Sterile	-	-	-	-	-
Quantity per packaging unit / case	1000 / 5000	1000 / 5000	1000 / 5000	500 / 15000	500 / 15000
Packaging unit	bulk	bulk	bulk	bulk	bulk
Price/ 1000 Tips (Rs.)	3100.00	1700.00	1850.00	1100.00	1500.00

Cat.-No.	740 290	740 296	770 290
Description	-	Universal	Gel-Load
Volume [µl]	200 - 1000	200 - 1000	10 - 200
Colour	blue	blue	natural
Graduation	-	+	-
Sterile	-	-	-
Quantity per packaging unit / case	250 / 5000	250 / 5000	1000 / 10000
Packaging unit	bulk	bulk	bulk
Price/ 1000 Tips (Rs.)	1250.00	1450.00	12500.00

Racks

Cat.-No.	973 270	974 290
Suitable for	Yellow tips	Blue tips
Quantity per bag/case	1	1
Price/Each (Rs.)	225.00	250.00

Conductive Pipette Tips

• Conductive tips are used to prevent carryover in automated pipetting robots. The addition of graphite to the raw material polypropylene makes the pipette tips electrically conductive.

• By measuring electric currents, the filling level can be determined in sample and reagent containers, so that the depth of immersion of the tip can be adjusted to the filling level.

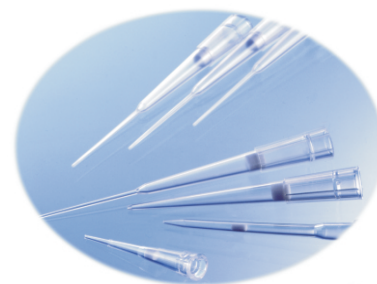


Cat.-No.	685 296	764 280	686 296
Suitable for	Eppendorf		
Special feature	–	slim style	–
Volume [ul]	10 - 200	10 - 240	200 - 1000
Filter / Sterile	– / –	– / –	– / –
Colour	black	black	black
Quantity per bag/case	500 / 15000	900 / 7200	250 / 5000
Packaging unit	bulk	bulk	bulk
Price/Case (Rs.)	59000.00	205000.00	42000.00

Filter Tips/Gel-load filter tip

Pipette tips with filter inserts prevent contamination with liquids and aerosols during the pipetting process. In combination with conventional pipettors, Greiner Bio-One filter tips prevent the aspiration of particles into the interior of the pipettor. This minimises the danger of unwanted cross-contamination. The special ultra-micro filter made of hydrophobic polyethylene has a pore size of approx. 10 microns and acts as a reliable barrier against the transfer of aerosols into the shaft of the pipettor. Greiner Bio-One filter tips:

- Are recommended for work with DNA and RNA, and when handling radioactive material
- Are available in the volume ranges 0.5 µl to 1000 µl
- Can be used with all standard pipettors
- Are free of detectable DNase / RNase and are **sterilised by irradiation**
- Are available in boxes of 96 pieces (Fig. 5) or 60 pieces in the case of 1000 µl tips
- Produced and certified according to DIN ISO 8655



Micro Filter Tips 0.5 -20 µl

Micro tips with a pipetting volume of up to 20 µl are suitable for the precise pipetting of the smallest possible liquid volumes as a result of their small size and thus small dead volume.

Filter Tips 10-200 µl

These tips can be used for pipetting volumes of 10-200 µl.

Filter Tips -200-1000 µl

These tips can be used for pipetting volumes of 200 - 1000 µl



Filter tip rack (F-rack)

0.5-20 µl

Cat.-No.	765 288	771 288	774 288	775 288
Description	micro crystal tip	micro tip P2 - P10	standard tip	gel-load filter tip
Ideally suited for	Eppendorf	Gilson	Universal	Eppendorf®
Volume [µl]	10	10	20	20
Colour	natural	natural	natural	natural
Graduation	–	–	–	–
Sterile	+	+	+	+
Quantity per bag/case	96 / 960	96 / 960	96 / 960	96/960
Packaging unit	F-rack	F-rack	F-rack	F-rack
Price/ 10 Racks (Rs.)	9900.00	8200.00	8200.00	15000.00

10-200 µl

Cat.-No.	772 288	739 288
Description	filter tip	universal filter tip
Ideally suited for	Universal	Universal
Volume [µl]	100	200
Colour	natural	natural
Graduation	-	+
Sterile	+	+
Quantity per bag/case	96 / 960	96/960
Packaging unit	F-rack	F-rack
Price/ 10 Racks (Rs.)	8200.00	8200.00

100-1000 µl

Cat.-No.	740 288
Description	universal filter tip
Ideally suited for	universal
Volume [µl]	1000
Colour	natural
Graduation	-
Sterile	+
Quantity per bag/case	60 / 600
Packaging unit	F-rack
Price/ 10 Racks (Rs.)	7200.00

Sapphire Pipette & Filter Tips

Pipette Tips 10 µl / 300 µl/ 1250 µl

Greiner Bio-One offers a new range of pipette and filter tips. The product family Sapphire comprises standard pipette tips, standard filter tips, low retention pipette tips and low retention filter tips. All tips are transparent, graduated, allow precise and comfortable pipetting with maximal recovery and free of detectable DNase, RNase, human DNA and are non-pyrogenic. The Sapphire pipette and filter tips can be used with all common pipettors.

- Graduation for perfect visual control of the liquid transfer.
- Thin-walled top of the tips for reliable fit and optimal seal.
- Tips and racks are autoclavable
- Extended 10 µl tip for better recovery of small sample volumes
- User-friendly and stackable racks

Cat.-No.	771 254	771 250	738 254	738 250	750 254	750 250
Volume [µl]	10	10	300	300	1250	1250
Colour	natural	natural	natural	natural	natural	natural
Graduation/Sterile	+/-	+/-	+/-	+/-	+/-	+/-
Quantity per packaging unit/case	96/4800	1000/10000	96/4800	1000/10000	96/3840	768/7680
Packaging unit	rack	bulk	rack	bulk	rack	bulk
Matching rack	-	cat no-970210	-	cat no-970230	-	cat no-970250
Price/Case (Rs.)	28750.00	26000.00	28750.00	26000.00	28750.00	26000.00

Low Retention Pipette Tips - 10 µl / 300 µl/ 1250 µl

- Low retention surface properties for high recovery rate and maximum precision.
- Graduation for perfect visual control of the liquid transfer.
- Thin-walled top of the tips for reliable fit and optimal seal.
- Tips and racks autoclavable. Extended 10 µl tip for better recovery of small sample volume
- User-friendly and stackable racks.

Cat.-No.	771 255	738 255	750 255
Volume [µl]	10	300	1250/
Colour	natural	natural	natural
Special feature	low retention	low retention	low retention
Graduation/Sterile	+/-	+/-	+/-
Quantity per packaging unit/case	96/4800	96/4800	96/3840
Packaging unit	rack	rack	rack
Price/Case (Rs.)	29500.00	29500.00	29500.00

Sapphire Filter Tips

10 µl / 20 µl / 300 µl / 1250 µl

- Prevent contamination with liquids and aerosols during pipetting
- Are recommended for work with DNA, RNA, and when handling radioactive material
- Graduation for perfect visual control of the liquid transfer
- Thin-walled top of the tips for reliable fit and optimal seal
- Low retention tips for high recovery rate and maximum precision

Cat.-No.	771 261	773 261	738 261	750 261
Volume [µl]	10	20	300	1250
Colour	natural	natural	natural	natural
Graduation/Sterile	+/+	+/+	+/+	+/+
Quantity per packaging unit/case	96/960	96/960	96/960	96/768
Packaging unit	rack	rack	rack	rack
Price/Case (Rs.)	8800.00	8800.00	8800.00	8800.00

Low Retention Filter Tips

Cat.-No.	771 265	773 265	738 265	750 265
Volume [µl]	10	20	300	1250
Colour	natural	natural	natural	natural
Special feature	low retention	low retention	low retention	low retention
Graduation/Sterile	+/+	+/+	+/+	+/+
Quantity per packaging unit/case	96/960	96/960	96/960	96/768
Packaging unit	rack	rack	rack	rack
Price/Case (Rs.)	11000.00	11000.00	11000.00	11000.00

Thin Wall PCR Tubes & Cap Strips for Real Time PCR

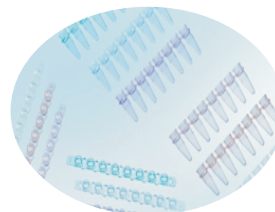
The PCR range has a product for all applications, including 0.2 ml and 0.5 ml tubes with either flat or domed caps, PCR tube strips with 8 tubes or as individual reaction tubes, as well as PCR microplates.

The Thin wall construction optimises the heat transfer from the block to the reaction solution.

- Thin wall for optimal heat transfer
- Available with attached domed or flat caps.

Additionally available in the PCR product programme are 8-cap strips for Real Time PCR. Like the standard cap strips, the 8-cap option reliably seals the 8-tube strips in addition to all Greiner Bio-One polypropylene 96 well PCR microplates. They have a flat lid and are made of highly transparent polypropylene. These are ideal for Real Time PCR applications, and are compatible with most Real Time PCR devices.

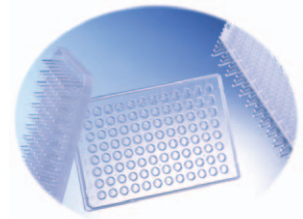
- Thin wall for optimal heat transfer
- Low evaporation rate in PCR



Cat.-No.	671 201	683 201	672 201	682 201	673 210	373 270	373 250
Description	tubes	tubes	tubes	tubes	8-tube strip	cap for 673 210	cap for RT PCR
Volume [ml]	0.2	0.2	0.5	0.5	0.2	–	–
Cap	domed attached	flat attached	domed attached	flat attached	without cap	domed cap	flat cap
Quantity per bag/case	500 / 1000	500 / 1000	500 / 1000	500 / 1000	125/1250	125/1250	125/1250
Price/1000 pcs. (Rs.)	3750.00	3750.00	2800.00	3750.00	10000.00/125pcs.	2100.00/125pcs.	3300.00/125pcs.

96 and 384 Well Polypropylene Microplates for PCR

• Ultra thin polypropylene for optimal heat transfer • Sealable with sealers SILVERseal™, VIEWseal™, and AMPLIseal™ • Cat No. 652 250 and 669 285 feature black alphanumeric well coding.



Cat.-No.	652 201	652 280	652 290	652 270	785 201	785 290
Well format	96 well	96 well	96 well	96 well	384 well	384 well
Volume per well	0.2 ml	0.2ml	0.2ml	0.2ml	25µl	25µl
Skirt	without skirt	half skirt	half skirt	full skirt	full skirt	full skirt
Special feature	-	-	suitable for ABI	-	-	suitable for ABI
Colour/ Alphanumeric coding	natural/-	natural/-	natural/-	natural/-	natural/blue	natural/blue
Sterile / Lid	- / -	- / -	- / -	- / -	- / -	- / -
Quantity per bag/case	10 / 40	10 / 40	10 / 40	10 / 40	15 / 60	15 / 60
Price/Each (Rs.)	360.00	380.00	400.00	380.00	500.00	400.00

Cat.-No.	652 250	669 285	785 285
Well format	96 well	96 well	384 well
Volume per well	0.2 ml	0.2ml	25µl
Skirt	without skirt	half skirt	full skirt
Special feature	flat, universal	suitable for LightCycler®	suitable for LightCycler®
Colour/ Alphanumeric coding	natural/black	white/black	white/black
Sterile	-	-	-
Quantity per bag/case	25/100	25/100	25/100
Price/Each (Rs.)	725.00	725.00	775.00

*Table 1 of Compatibility for PCR Microplates on next page.

→ New

→ New

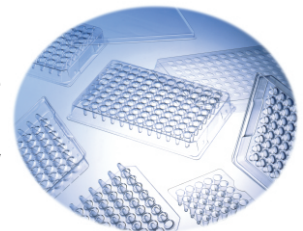
→ New

ThermoQuick - Polycarbonate Microplates for PCR

Individually designed, ThermoQuick microplates fit into the cavity profiles of all well-known thermocyclers. Together with the heat-resistant adhesive sealers SILVERseal™, VIEWseal™ and AMPLIseal™ and the appropriate polycarbonate lids ThermoQuick microplates offer a reliable system for processing large quantities of samples.

The adhesive sealers prevent evaporation and contamination during the PCR reaction, especially in thermocyclers with a heated lid. Polycarbonate lids offer protection against evaporation and contamination during sample storage.

• Polycarbonate for temperatures up to 135° C • Optimal and rapid heat transmission • Selection of cavity profiles • Lids (optional) for prevention of evaporation and contamination during sample storage • Sealable with sealers SILVERseal™, VIEWseal™ and AMPLIseal™.



Cat.-No.	651 501	651 550	651 560	651 570
Description	Type 1	Type 2	Type 3	Type 4
Suitable for	Biometra/ Ericom	Hybaid	MJ Research	Perkin-Elmer/ Eppendorf Gradient
Quantity per bag/case	1 / 50	1 / 50	1 / 50	1 / 50
Price/Each (Rs.)	450.00	450.00	450.00	450.00

Cat.-No.	651 580	651 585	651 590	651 595
Description	Type 5	Type 6	Lid	Lid
Suitable for	Techne - 96	Techne - 25 / Eppendorf Personal	Type 1 - 4	Type 5
Quantity per bag/case	1 / 50	1 / 50	1 / 50	1 / 50
Price/Each (Rs.)	450.00	450.00	375.00	375.00

PCR Microplates

Table of compatibility for PCR Microplates

Cat. No.	652 201	652 250	652 260	652 270	652 280	652 290	669 285	785 201	785 285	785 290
Amersham Bioscience										
MegaBACE 500				•						
MegaBACE 4000								•		•
Applied Biosystems										
ABI PRISM® 2720	•	•	•			•				•
ABI PRISM® 310		•	•							
ABI PRISM® 3100		•	•							•
ABI PRISM® 3130	•		•			•				•
ABI PRISM® 3700		•	•		•	•		•		•
ABI PRISM® 3730/3730x		•	•			•		•		•
ABI PRISM® 7000	•	•	•			•		•		
ABI PRISM® 7300			•			•				
ABI PRISM® 7500			•			•				
ABI PRISM® 7700		•	•		•	•				
ABI PRISM® 7900 HAT			•		•	•		•		•
GeneAmp® PCR System 2700		•	•							
GeneAmp® PCR System 9600	•	•	•		•	•				
GeneAmp® PCR System 9700	•	•	•			•		•		•
GeneAmp® PCR System 7500		•	•							
Veriti®	•		•			•		•		•
Biometra										
UNO	•	•		•		•				
UNO II	•	•		•		•		•		•
TRobot	•	•		•		•		•		•
T1 Thermal Cycler	•	•		•		•		•		•
Tgradient	•	•	•	•		•				
Bio-Rad										
iCycler	•	•	•		•	•				
iQ5	•			•		•				
MyCycler	•					•				
MyiQ	•									
Corbett Research										
Palm-Cycler™ 96				•		•				
Palm-Cycler™ 384								•		•
Eppendorf										
Mastercycler®	•	•		•	•					
Mastercycler® ep	•			•	•					
Mastercycler® ep realplex				•						
Mastercycler® Gradient	•	•	•					•		
Mastercycler® M384								•		•
Ericom										
SingleBlock	•	•			•	•				
TwinBlock	•	•			•	•				
Deltacycler I	•	•			•	•				
Flexi										
Gene	•			•		•		•		•
Genius	•			•		•				
MJ Research										
BaseStation				•						
Chromo 4				•						
Dyad Disciple	•	•		•		•				•
Opticon		•		•						
Opticon 2				•						
PTC-100	•	•		•	•	•				•
PTC-200	•	•	•	•	•	•		•		•
PTC-225 Tetrad	•	•	•	•	•	•		•		•
MWG										
Primus 96	•			•						
Primus 384								•		•
Roche										
LightCycle® 480							•	•		
Stratagene										
RoboCycler				•	•			•		
Gradient Temp. Cycler		•	•							
Mx3000P/4000	•	•								
TaKaRa										
TP 240				•						
TP 3000	•			•	•	•				
Techne										
Flexigene		•	•					•		
Genius	•	•	•	•	•	•		•		
Quantica				•						
Touchgene Gradient	•	•	•	•	•	•		•		•
Touchgene X				•		•		•		•
Thermo Hybaid										
Multiblock System	•	•		•	•	•		•		•
OMN-E	•	•	•	•	•	•		•		•
Omnigene	•			•	•	•		•		•
PCR Express	•	•	•	•	•	•		•		•
PCR Sprint				•		•				
PxE / Px2	•	•	•	•	•	•		•		•
Touchdown	•			•	•	•		•		•
Transgenomic										
WAVE®		•		•						

Table 1: PCR microplate compatibility recommendations for thermocycler, sequencer and Real Time PCR.

96 Well CrystalQuick™/ 96 Well CrystalQuick™ Plus

In cooperation with the Genomics Institute of the Novartis Research Foundation (GNF) in San Diego (USA), the Max-Planck Institute (MPI) and the Protein Structure Factory (PSF) in Berlin, Greiner Bio-One has developed a family of 96 well crystallisation plates for sitting drop applications. Each of the 96 reservoirs contains an elevated platform with either one or three crystallisation wells. The plates are optimised for sealing with VIEWseal adhesive film. The external dimensions and tolerances of the CrystalQuick plates are suitable for automated applications. All CrystalQuick plates are available in an LBR version for the use of polarised light. Plates with a hydrophobic surface can be found in the table under CrystalQuick Plus plates.

CrystalQuick™ SW (Square Wells)

With three crystallisation wells per reservoir, CrystalQuick SW makes it possible to test 288 samples per plate. The flat bottom of the wells provides for good optical properties. The maximum volume of the crystallisation drops is 4 µl (US Patent No. 7005008 B2).

CrystalQuick™ RW (Round Wells)

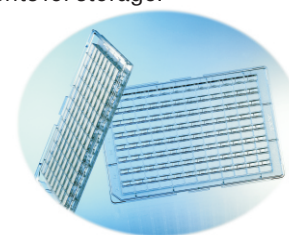
With three round crystallisation wells per reservoir, CrystalQuick RW makes it possible to test 288 samples per plate. The bottom of the crystallisation wells is concave. The maximum volume of the crystallisation drops is 1.9 µl.

CrystalQuick™ LP (Low Profile)

CrystalQuick LP (low profile) crystallisation plates are characterised by excellent optical properties. Crystal harvesting is made easier by the angled walls of the crystallisation wells. The low profile reduces space requirements for storage.

96 Well CrystalQuick™

- Crystallisation plates for sitting drop applications with different well profiles and material properties.
- Alphanumeric well coding.



Cat.-No.	609 101	609 801	609 120	609 820	609 171	609 871
Description	CrystalQuick™	CrystalQuick™	CrystalQuick™	CrystalQuick™	CrystalQuick™	CrystalQuick™
Material properties	standard	LBR	standard	LBR	standard	LBR
Well profile	square (SW)	square (SW)	round (RW)	round (RW)	square (LP)	square (LP)
Well bottom	flat	flat	concave	concave	flat	flat
Well per reservoir	3	3	3	3	1	1
Max. well volume [µl]	4.1	4.1	1.9	1.9	3.9	3.9
Volume per reservoir [µl]	320	320	320	320	140	140
Height [mm]	14.4	14.4	14.4	14.4	8.0	8.0
Profile	–	–	–	–	Low	Low
Quantity per bag/case	10 / 40	10/40	10 / 40	10/40	20 / 80	20/80
Price/Each (Rs.)	1150.00	1800.00	1200.00	1850.00	1500.00	1950.00

96 Well CrystalQuick™ Plus

Cat.-No.	609 130	609 830	609 180
Description	CrystalQuick™ Plus	CrystalQuick™ Plus	CrystalQuick™ Plus
Material properties	hydrophobic	LBR, hydrophobic	hydrophobic
Well profile	square (SW)	square (SW)	square (LP)
Well bottom	flat	flat	flat
Well per reservoir	3	3	1
Max. well volume [µl]	4.1	4.1	3.9
Volume per reservoir [µl]	320	320	140
Height [mm]	14.4	14.4	8.0
Profile	–	–	Low
Quantity per bag/case	10 / 40	10 / 40	20 / 80
Price/Each (Rs.)	1350.00	1950.00	1550.00

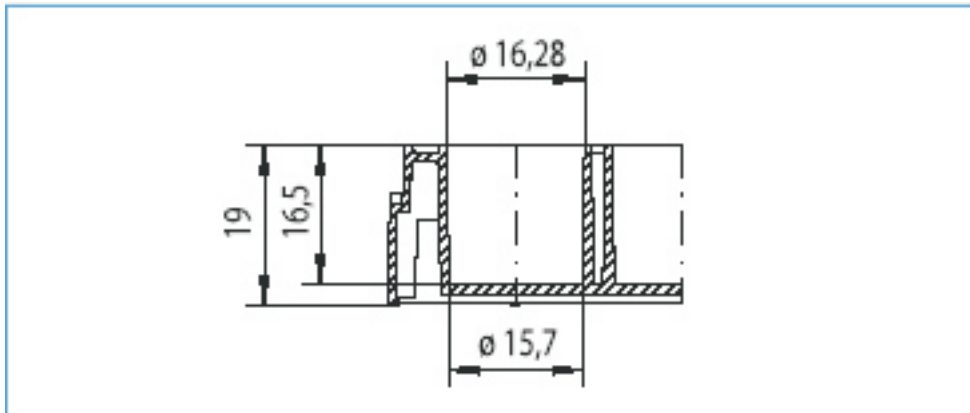
24 Well ComboPlate™ CrystalBridge™

- Universal 24 well crystallisation plate
- pre-greased plates available
- Siliconised coverslips available.

ComboPlate™

The ComboPlate™ was developed as universal platform for crystallisation in the 24 well format in cooperation with Hampton Research. Clear polystyrene in combination with flat, distortion-free bottom offers excellent optical properties.

A flattened, raised ring around each well reduces the risk of cross contamination and make it possible to seal the wells with silicone grease and coverslips (Ø 18 mm) or VIEWseal™ sealer (Cat # 676070). A slightly raised lid protects coverslips and sealer during transportation and storage.



Well profile, 24 well ComboPlate™



Crystal Bridge™

Sitting drop experiments are possible using the CrystalBridge™ inserts which fit exactly into the wells of the ComboPlate™. The well with a concave bottom integrated into the CrystalBridge™ has a volume of 45 µl. If necessary, CrystalBridge™ inserts can be transferred to another well during the course of an experiment.

The ComboPlate™ is also available pre-greased or in an LBR version for use with polarised light. As an accessory for the ComboPlate™ Greiner Bio-One offers siliconised coverslips (round, Ø 18 mm). Siliconised coverslips for Linbro plates (round, Ø 22 mm) can also be found in our product line.

Cat.-No.	662 150	662 050	662 145
Description	ComboPlate™	ComboPlate™	CrystalBridge™
Material properties	–	pre-greased	–
Format	24 well	24 well	1 well
Well bottom	flat	flat	concave
Ø Well [mm]	16.3	16.3	4.6
Max. well volume [µl]	3300	3300	45
Lid	+	+	–
Quantity per bag/case	6 / 24	6 / 24	250
Price/Each (Rs.)	425.00	1100.00	180.00

Cat.-No.	501 870	503 870
Description	round coverslips	round coverslips
Material properties	siliconised glass	siliconised glass
Ø [mm]	18	22
Thickness [mm]	0.19-0.22	0.19-0.22
Quantity per box/case	100/1000	100/1000
Price/Each (Rs.)	48.00	55.00

60 Well and 72 Well Terasaki Plates

- Plate for crystallisation under oil (Microbatch) • Available with 60 (6 x 10) or 72 (6 x 12) wells • Conical wells, 11.45 µl each • Wells with flat bottom, Ø 1.3 mm.

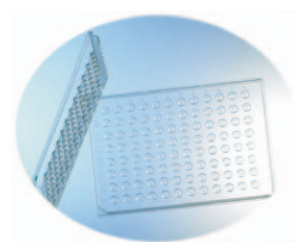
Dimensions: • Length 83.3mm • Width 58.0mm • Height 10.0mm

Cat.-No.	653 102	654 102
Description	Terasaki Plate	Terasaki Plate
Format	60 well	72 well
Well profile	conical	conical
Well bottom	flat	flat
Ø Well bottom [mm]	1.3	1.3
Working volume per well [µl]	10	10
Max. well volume [µl]	11.5	11.5
Length [mm] x width [mm] x height [mm]	83.3 x 58 x 10	83.3 x 58 x 10
Surface treatment	–	–
Quantity per bag/case	10 / 580	10 / 270
Price/Each (Rs.)	95.00	110.00

96 Well IMP@CT™ Plate

- Plate for Crystallisation under oil • 96 conical wells 19.1 µl each • Wells with flat bottom, Ø 1.99mm.

The IMP@CT™ plate was specially developed for crystallisation under oil in the 96 well format. The conical profile of the wells support the placement of the sample solution in the centre of the well. A flat bottom makes it possible to monitor crystal growth under the microscope. The low profile reduces the amount of space required for storage of the plates. An appropriate lid is available.

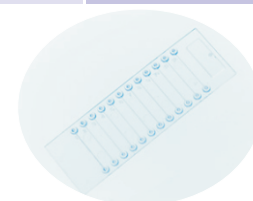


Cat.-No.	673 170	790 801	656 190
Description	IMP@CT™	IMP@CT™	Lid
Material properties	clear	clear, LBR	–
Format	96 well	1536 well	–
Max well volume [µl]	8.0	10.1	–
Ø well bottom [mm].	1.34	0.9	–
Height [mm]	14.4	10.4	–
Quantity per bag/case	10 / 40	15/60	20 / 200
Price/Each (Rs.)	1275.00	5700.00	50.00

Crystal Slide™

Micro-channel Platform for Counter Diffusion Crystallography.

- Micro-channel platform for counter diffusion crystallography. • Slide holder available on request



Cat.-No.	444 820
Description	CrystalSlide™
Material	LBR, UV-transmissible X-ray transmissible
Slide dimensions (L x W) [mm]	75 x 25
Channel dimensions (L x W x H [mm])	20 x 0.1 x 0.1
Number of channels per slide	12
Channel volume [µl]	200
Quantity per bag/case	4/20
Price/Each (Rs.)	3700.00

Leucosep™

Efficient separation of lymphocytes and mononuclear cells from peripheral blood and bone marrow.

- Enrichment directly from whole blood
- Simplified filling through porous barrier
- Rapid separation in 15 minutes at room temperature
- No additional laboratory equipment required
- Removal of erythrocytes and granulocytes
- No recontamination with erythrocytes
- No blocking of marker molecules
- Pre-filled option with Ficoll-Paque®
- Available unfilled for usage of different separation media.



Cat.-No.	163 288	163 289	163 290	227 288	227 289	227 290
Description	Leucosep™ tubes with porous barrier	Leucosep™ tubes with porous barrier	Leucosep™ tubes with porous barrier	Leucosep™ tubes with porous barrier	Leucosep™ tubes with porous barrier	Leucosep™ tubes with porous barrier
Volume [ml]	12	12	12	50	50	50
Separation Medium	+ /pre-filled with Leucosep™ separation medium	-	-	- /pre-filled with Leucosep™ separation medium	-	-
Sterile	as	-	+	as	-	+
Sample volume	3 – 8ml blood	3 – 8ml blood	3 – 8ml blood	15–30ml blood	15–30ml blood	15–30ml blood
Quantity per bag/case	50 / 500	50 / 500	50 / 500	25/250	25/300	25/300
Price/Each (Rs.)	450.00	155.00	165.00	1300.00	300.00	300.00

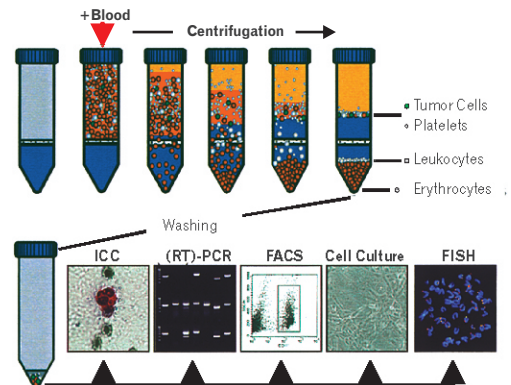
as = aseptically produced

OncoQuick®

OncoQuick® is a simple to use, rapid and efficient system for the enrichment of circulating tumour cells that are released into the blood by a solid epithelial tumour or malignant melanoma. OncoQuick® combines the advantages of cell separation by density gradient centrifugation (rapid, reproducible and cost effective) with recovery rates that are comparable with immunobead methods.

OncoQuick® consists of a sterile 50ml polypropylene tube with a porous barrier, which is inserted above the specially developed separation medium. Up to 30ml of anticoagulated whole blood is directly filled into the OncoQuick® tube and centrifuged. Apart from erythrocytes and granulocytes, the separation medium also allows the elimination of lymphocytes and mononuclear cells to a wide extent. The disseminated tumour cells are enriched in the interphase. After harvesting, the enriched cell fraction is washed. The tumour cells are then available for all standard diagnostic methods. OncoQuick® was developed in a cooperation between Hexal Gentech and Greiner Bio-One and is intended for use for research purposes only!

- Features:** Time request approx. 45 minutes
- Reproducible recovery: > 70%
 - Depletion of blood cells by up to 6 log units
 - No additional laboratory equipment required
 - No need for magnetic beads
 - No blocking of marker molecules
 - Enrichment directly from whole blood.



Cat.-No.	227 255	227 250
Description	OncoQuick® tubes with porous barrier and separation medium	OncoQuick® tubes with porous barrier and separation medium
Sterile	as	as
Sample volume	15 – 30 ml blood	15 – 30 ml blood
Quantity per bag/case	pack of 4 pcs.	pack of 10 pcs.
Price/Pack (Rs.)	17000.00	60000.00

as = aseptically produced

BIOCHIPS/MICROFLUIDICS



The amount of data of partially or fully sequenced genomes of the animal and plant kingdom is constantly growing offering manifold possibilities for science and medicine. For instance high-density microarrays have been utilised in basic research for expression analyses for many years. Due to the complexity of data, high costs and the lacking possibility of high sample throughput, they have not been applied to clinical diagnostics yet.

With the development of a low-density microarray, Greiner Bio-One could close the gap for the application of microarrays in clinical diagnostics: By means of the HTA™ Slide* (High-Throughput micro Arraying) up to 12 specimens can be manipulated simultaneously and are analysed for the presence of the requested markers.

Based on the biochip microarray technology, two product lines with different application fields were created: The oCheck® product line and the Inspect™ product line. All test kits of both product lines are offered as ready-to-use kits and every test kit contains biochips, PCR master mix, hybridisation buffer and concentrates of the washing buffers in sufficient amounts.

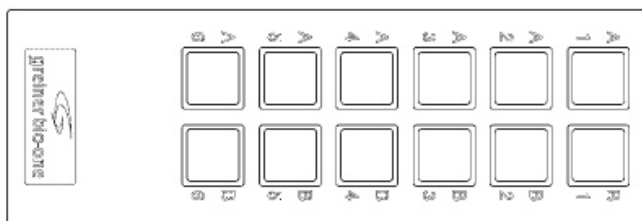
oCheck® Product Line

The oCheck® product line from Greiner Bio-One has been developed specifically for the requirements of clinical diagnostics: Many specimens can be processed in a short period and examined for the presence of specific viral or bacterial species. For this purpose, DNA is extracted from a specimen and a target sequence is being amplified. The PCR product is transferred to the biochip and binds to the respective complementary sequence. After only a few washing steps and a subsequent drying of the biochip, the bound target sequence can be detected via fluorescence labelling. Here, the biochip is scanned and analysed with the Check Scanner™ and the CheckReport™ Software, respectively. Finally, the result of each specimen is generated automatically and can be provided to the physician.

All test kits of the oCheck® product line developed for an application in diagnostics are certified as in-vitro diagnostics according to the effective legal requirements (IVDD) and have been tested in clinical studies.

For each oCheck® product (PapilloCheck®, PapilloCheck® high-risk, ParoCheck®) a specimen collection kit and a DNA extraction kit is also available. For oCheck® customers with a high sample throughput, Greiner Bio-One exclusively developed the DNA extraction device CheckExtractor™ adapted to the necessities of the oCheck® product line (CE-IVD).

With another oCheck® product (CarnoCheck®) even minimal amounts of different animal species can be detected in food.



HTA™ Slide 12 with 12 wells

* The HTA™ Slide platform is covered by U.S. Patent No. 8.007.744

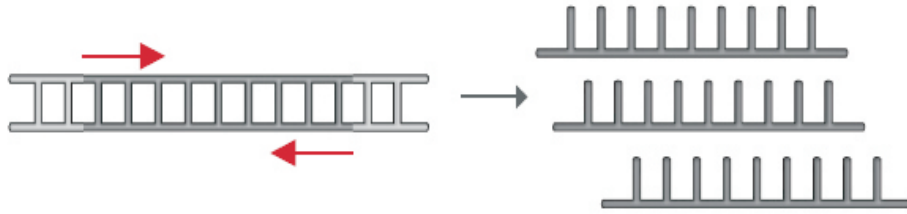
Inspect™ Product Line

In addition, Greiner Bio-One develops and produces a product line for the biopharmaceutical industry: The products of the Inspect™ product line are used in the quality control process of biopharmaceutical production and thereby enable a considerably faster release of the manufactured products in comparison to established cultivation methods. The technology corresponds to the mentioned assay procedure of the oCheck® products

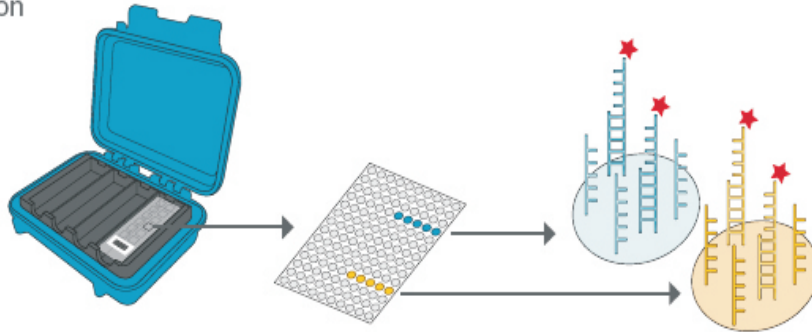
Quality Control

Both product lines contain comprehensive on-chip controls for every single specimen. The controls are evaluated in parallel with the analysis of the sample by means of the Check Report™ Software. Hereby, failure during the assay procedure can be recognised quickly and a transmission of false negative results can be anticipated.

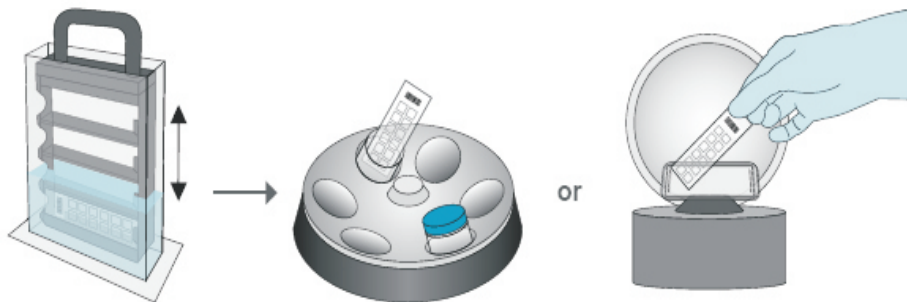
1. PCR reaction



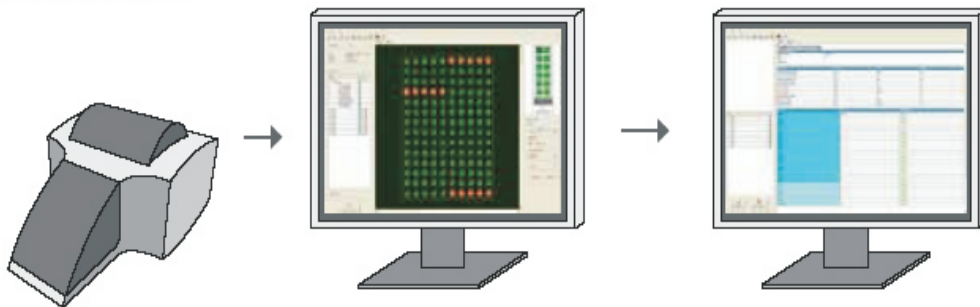
2. Hybridisation



3. Washing and drying



4. Scanning and analysis



General assay procedure of biochip products

- 1. PCR reaction:** Amplification of a target sequence
- 2. Hybridisation:** Binding of the fluorescently labelled amplification product to the complementary DNA sequence
- 3. Washing and drying:** Removal of unbound DNA
- 4. Scanning and analysis:** Scanning, evaluation and generation of a report using the CheckScanner™ and the corresponding CheckReport™ Software.

Diagnostics Kits

PapilloCheck®/PapilloCheck® high-risk/PapilloCheck® Collection Kit/CarnoCheck® PapilloCheck®

Persistent infection with a carcinogenic high-risk human papillomavirus (HPV) is found in virtually all cases of cervical cancer. PapilloCheck® is a CE-certified in-vitro diagnostic kit (CE-IVD) for the qualitative detection and genotyping of 24 pathogenic HPV types (18 high-risk and 6 low-risk types) in DNA preparations from human cervical smears. The assay is based on detection and identification of a fragment of the viral E1 gene using a DNA microarray and allows the simultaneous processing of 12 cervical samples.

Prior to the PapilloCheck® analysis, DNA has to be extracted from a cervical specimen. Dedicated products for specimen collection (PapilloCheck® Collection Kit) and DNA extraction (oCheck® DNA Extraction Kit) are also available from Greiner Bio-One. After DNA extraction, a 350 bp fragment of the viral E1 gene is amplified by polymerase chain reaction (PCR) and the fluorescencelabelled PCR products are then hybridised to specific DNA probes attached to the chip surface. Unbound DNA is removed in the subsequent washing steps. Finally, the PapilloCheck® DNA chip is automatically scanned, analysed and evaluated using the CheckScanner™ and CheckReport™ Software respectively. The Greiner Bio-One PapilloCheck® test kit uses on-chip controls to monitor critical steps of the assay and chip processing, e.g. presence of human material in the cervical specimen, DNA extraction, PCR and hybridisation, as well as printing quality. Additionally, implementation of dUTP in the PCR Master Mix enables the elimination of potential carry-over contaminations from previous PCR reactions.

PapilloCheck® high-risk

On the basis of the nearly absolute etiologic link between HPV and cervical cancer, testing for high-risk HPV is now considered in primary cervical cancer screening. The newly developed PapilloCheck® high-risk test kit (CE-IVD) is designed to meet the demands of cervical cancer screening by targeting 14 of the most carcinogenic high-risk HPV types (hrHPV). The microarray-based test kit allows the simultaneous identification of all HPV types detectable, which differ in their carcinogenic potential, using exactly the same technology as the approved PapilloCheck®.

PapilloCheck® Collection Kit

The newly designed and CE-certified PapilloCheck® Collection Kit (Fig. 3) consists of a cervical brush and a vial filled with specimen transport medium wrapped in a blister package. The cervical brush is designed to simultaneously sample both the ecto- and endocervix. Additionally, it is equipped with a snap-off head, which remains in the storage vial after collecting the sample, thus ensuring that the entire sample is collected. The dimensions of the new storage vial ensure an easy and secure handling of the sample for downstream DNA extraction and PapilloCheck® analysis even with the snap-off head remaining in the vial. The special specimen transport medium guarantees optimal storage conditions and a transport free of contamination and DNA degradation.

CarnoCheck®

Control of food production plays an increasing role in consumer protection. In this context, the demand of consumers for the complete declaration of all processed ingredients, especially in products containing meat, is constantly growing. CarnoCheck® offers the possibility to simultaneously identify up to eight different animal species (cattle, chicken, donkey, goat, horse, pig, sheep and turkey), even if present in minimal amounts within the analysed specimen.



465 060



462 030

Cat.-No.	465 060	505 060	465 075	462 030
Description	PapilloCheck® (CE-IVD) genotyping of 24 pathogenic HPV	PapilloCheck® high risk (CE-IVD) genotyping of 14 carcinogenic hrHPV	PapilloCheck® Collection Kit (CE)	CarnoCheck® identification of 8 animal species
Test per case	60	60	50	30
Price/Case(Rs.)	on request	on request	on request	on request

→ New

→ New

ParoCheck®

Inflammation of the gum (gingivitis) and the periodontium (periodontitis) are amongst the most common human diseases. If no treatment takes place, the inflammation possibly results in the loss of the affected teeth. Appearance and progression of most periodontal inflammatory processes involve a shift in the spectrum of oral bacterial species: Whereas in the healthy situation the oral microflora is mainly composed of gram-positive facultative anaerobes, in patients suffering from periodontitis gram-negative anaerobes predominate. A landmark work published by Sokransky et al. in 1998 (J Clin Periodontol 25, 134-144 (1998)) described six bacterial complexes associated with periodontal disease.

ParoCheck® is the first commercially available CE-IVD certified test system for the simultaneous identification of up to 20 different bacterial species of all six bacterial complexes. Thus, the result of ParoCheck® can assist the dentist in the decision of the appropriate treatment of the patient.

Specimen collection and DNA extraction prior to the utilisation of ParoCheck® are performed in using the ParoCheck® Collection Kit and the oCheck® DNA Extraction Kit, respectively.



Cat.-No.

Description

Test per case

Price/Case(Rs.)

Cat.-No.	Description	Test per case	Price/Case(Rs.)
460 110	ParoCheck® 10 (CE-IVD) identification periodontal pathogens	60	on request
460 120	ParoCheck® 20 (CE-IVD) identification periodontal pathogens	60	on request

oCheck® DNA Extraction kit/oCheck® VacPump/oCheck® VacSet

The oCheck® DNA Extraction Kit is an in-vitro diagnostic kit designed for the isolation of human, bacterial and viral DNA from samples of human origin. The oCheck® DNA Extraction Kit allows the preparation of high-quality DNA suitable for the direct downstream analysis with assays from the oCheck® product line. Invalid analysis due to low DNA quality can be excluded.

The oCheck® DNA Extraction Kit - **Single Column Preparation** (CE-IVD) enables individual sample preparation and is appropriate for laboratories with a flexible sample throughput. The preparation of up to 24 samples can be done within 2 hours. The isolated DNA is suitable for the following applications: PapilloCheck®, PapilloCheck® high-risk and ParoCheck®

The oCheck® DNA Extraction Kit - **8 Columns Preparation** (CE-IVD) is adapted for laboratories with a medium to high sample throughput. The kit comprises strips with 8 DNA extraction columns to be used in a vacuum manifold connected to a vacuum pump. Time-consuming centrifugation and decanting steps are eliminated through vacuum use. Up to 48 samples can be prepared in parallel within 2 hours and used for downstream analysis by the following assays: PapilloCheck® and PapilloCheck® high-risk For use of the oCheck® DNA Extraction Kit - 8 Columns Preparation the following equipment is validated: the user-friendly and robust vacuum manifold oCheck® VacSet combined with the quiet and chemistry-resistant membrane-vacuum pump oCheck® VacPump



Cat.-No.

Description

Content

Price/Case(Rs.)

Cat.-No.	Description	Content	Price/Case(Rs.)
515 040	oCheck® DNA Extraction Kit Signle Column Preparation (CE-IVD)	50 preps	on request
515 050	oCheck® DNA Extraction Kit 8 Columns Preparation (CE-IVD)	96 preps	on request
863 070	oCheck® VacPump	1	on request
863 080	oCheck® VacSet	1	on request

Mycoplasma Detection Kit

CytoInspect™/CytoInspect™ DNA Extraction Kit

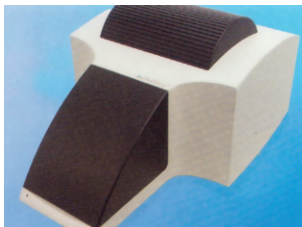
Mycoplasma contamination during biopharmaceutical manufacture is a significant threat to the production of high-quality biotechnological products. Contamination with mycoplasmas, the smallest known class of self-replicating microorganisms, can both compromise final product safety and reduce product yields. CytoInspect™ is a premium test kit for the identification of mycoplasma species in cell cultures and other biological materials. It has been validated under GMP conditions in accordance with the guidelines of the European Pharmacopoeia.

CytoInspect™ detects mycoplasma species with a universal mycoplasma probe (including *Acholeplasma* sp., *Spiroplasma* sp. and *Ureaplasma* sp.) and identifies 40 individual species using species-specific probes. Species determination can help to identify the contamination source. Thereby it prevents a further spread of an infection. DNA is first extracted from a sample using the proprietary CytoInspect™ DNA Extraction Kit which specifically enriches mycoplasma DNA from various background matrices with up to 109 cells/ml and for sample volumes of up to 50 ml. PCR is performed on the extracted material. The PCR primers amplify conserved, mycoplasma-specific sequences of the 16S - 23S rRNA intergenic transcribed spacer of mycoplasma DNA. dUTP is incorporated into the CytoInspect™ PCR mastermix enabling treatment of PCR reactions with uracil-N-glycosylase thereby minimising the risk of cross-contamination with amplicons from previous PCR reactions. The fluorescently-labelled, amplified DNA fragments are then hybridised to the HTA™ Slide* (microarray chip). The chip contains probes for both species-specific targets and a universal probe detecting any species of mycoplasma present in the original sample. The CytoInspect™ chip also integrates a comprehensive range of controls, allowing monitoring of the entire assay. Finally, the Check Scanner™ and the Check Report™ Software are used for the detection of any bound, fluorescent PCR products. The CytoInspect™ DNA chip has a total of 225 individual measurement points which are first scanned by the CheckScanner™ and subsequently automatically analysed using the CheckReport™ Software. The software enables automatic sample tracking, rapid report generation and digital data management. The CheckReport™ Software fully complies with the FDA 21 CFR part 11 for electronic records. With results delivered in 5 hours, CytoInspect™ is a rapid and effective alternative to culture-based mycoplasma assays. The assay shows superior sensitivity and specificity to traditional mycoplasma detection tests. CytoInspect™ is part of a complete assay system, consisting of the CytoInspect™ kit, the CytoInspect™ DNA Extraction Kit, the CheckScanner™ and the CheckReport™ Software. CytoInspect™ is a ready-to-use kit and includes the CytoInspect™ DNA chips, the PCR mastermix, buffers and a detailed instruction manual. The CytoInspect™ DNA Extraction Kit contains all necessary reagents for sample DNA extraction.

Cat.-No.	464 060
Description	CytoInspect™ identification of mycoplasma species
Tests per case	10
Price/Case(Rs.)	On request

CheckScanner™ and CheckReport™ Software

The CheckScanner™ is a PC-controlled biochip fluorescence scanner for the laboratory use in combination with the CheckReport™ Software. It is designed to scan with high performance ready-to-use microarrays in HTA™ Slides manufactured by Greiner Bio-One. The coordinated parallel development of compatible scanner and software permits the fully automated detection and analysis of up to 4 HTA™ Slides. Through the use of innovative control systems on the individual diagnostic kits from Greiner Bio-One, which are monitored by the CheckReport™ Software during the evaluation, false negative or false positive results are virtually excluded. The CheckReport™ Software is now (from version 4.0) available for two different applications: The established CheckReport™ Software Basic Version has been developed on the basis of several international standards including DIN EN ISO 13485. The new CheckReport™ Software US Basic Version has been designed to allow FDA compliance in accordance with the terms of the Code of Federal Regulations 21 CFR Part 11: Electronic Records. Both are composed of three subsystems: CheckReport™ SampleSheet: This unequivocally links patient data with an individual barcode on each biochip. CheckReport™ Result: The module is based on the successful GeneSpotter software from MicroDiscovery and contains the actual evaluation. CheckReport™ Admin: This module controls the user management and prevents the misuse or manipulation of data.



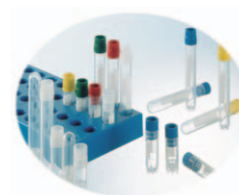
Fully automated analysis of 4 HTA™ Slides in a Check Scanner™

Cat.-No.	862 080	862 070
Description	CheckReport™ Software (CE-IVD)	CheckScanner™ (CE-IVD)
Quantity per case	1	1
Price/Case (Rs.)	On request	On request

Cryo.s™

1ml, 2ml, 4 & 5ml - Sterile

- CE-marked • Made of high-grade polypropylene which guarantees high thermal resistance
- Cap inserts Cat.-No. 304171 (Quantity per bag/case: 50 pieces per bag) • Cryo.s™ with internal thread have a silicone gasket



COLOUR	Natural, with writing area	Cat.-No.	123 263	121263	122263	126263	127 263	124 263
	Natural, without writing area	Cat.-No.	123 261	121 261	122 261	126 261	127 261	124 261
	Green, with writing area	Cat.-No.	123 277	121 277	122 277	126 277	127 277	124 275
	Yellow, with writing area	Cat.-No.	123 278	121 278	122 278	126 278	127 278	124 276
	Blue, with writing area	Cat.-No.	123 279	121 279	122 279	126 279	127 279	124 274
	Red, with writing area	Cat.-No.	123 280	121 280	122 280	126 280	127 280	124 273
Description			1 ml	2ml	2ml	2ml	4ml	5ml
Working volume [ml]			1 – 1.2	1.8 – 2.0	1.8 – 2.0	up to 2.2	up to 4.0	4.5 – 5.0**)
Ø [mm] x height* [mm]			12.5 x 42	12.5 x 48	12.5 x 48	12.5 x 47	12.4 x 83	12.5 x 86
Starfoot			+	-	+	+	+	-
Bottom			conical	round	round	round	round	round
Thread			internal	internal	internal	external	external	internal
Inserts per case			150	150	150	150	100	100
Quantity per bag/case			100 / 500	100 / 500	100 / 500	100 / 500	50 / 300	50 / 300
Price / Each (Rs.)			22.00	22.00	22.00	22.00	22.00	22.00

*total height incl. lid

**Maximum working volume for freezing of aqueous solutions: 4.5 ml

Cryo.s™ with Datamatrix Codes

Datamatrix Coding Service for Cryogenic Storage Tubes

The novel Datamatrix coding service is available for:

- 1 ml Cryo.s™ with internal thread (Cat.-123 2XX)
- 2 ml Cryo.s™ with internal thread (Cat.-122 2XX)
- 2 ml Cryo.s™ with internal thread (Cat.-126 2XX)
- 4 ml Cryo.s™ with internal thread (Cat.-127 2XX)

Symbol size (Row x column)	Data capacity Numerical	(No. of characters) Alphanumerical
	10 x 10	6
12 x 12	10	6
14 x 14	16	10

Features

- Laser-written ECC200 Datamatrix • Strong resistance to mechanical and chemical damage • High data capacity • Sequential sample IDs or consistent characters. • Reed-Solomon error correction for high redundancy of encrypted information. • Each Datamatrix is proof-scanned. • Availability of four different tube sizes.



Cat.-No.

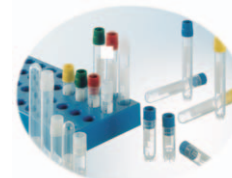
Description

Price/Each (Rs.)

F071 005
order form Cryo.s™ with
Datamatrix
On request

Support Rack & Inserts for Cryo vials

- Suitable for Cryo.s™ with starfoot base (cat.-No. 122 xxx, 123 xxx, 126 xxx, 127 xxx)
- Work in cryotechnics is made easier, since the tubes can be opened with one hand
- Rubber base to prevent slipping • Offers space for up to 40 Cryo.s™. • Length: 200 mm; width: 100 mm; height: 22 mm



Cat.-No.

Description

Width [mm] x length [mm] x height [mm]

Material

Colour

Quantity per case

Price/Each (Rs.)

802 501
Support rack for one-hand operation
100 x 200 x 22
polycarbonate
blue
1
1100.00

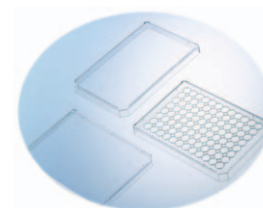
304 171
Cap inserts for Cryo.s Vials.
-
-
-
50/400
6.50

Lids - Polystyrene

• High, low and ultra low profile lids • All sterile lids are non-cytotoxic

Lids offer protection against contamination and evaporation during sample storage and cell cultivation. Four different polystyrene lids are available:

• High profile lids (9 mm) • High profile lids (9 mm) with condensation rings • Low profile lids (6 mm) • Universal ultra low profile lids



Cat.-No.	656 101	656 161	656 170	656 171	656 190	656 191	691 101	691 161
Description	lid	lid	lid	lid	lid	lid	lid	lid
Lid profile / height [mm]	high / 9	high / 9	high / 9	high / 9	low / 6	low / 6	ultra low	ultra low
Condensation rings	-	-	+	+	-	-	-	-
Sterile	-	+	-	+	-	+	-	+
Quantity per bag/case	1 / 100	1 / 100	1 / 100	1 / 100	20 / 200	20 / 200	5/100	5/100
Price/Each (Rs.)	48.00	65.00	48.00	65.00	48.00	65.00	160.00	180.00

EASYseal™ & SILVERseal™

EASYseal™ : • Coverage / storage of microplates (e.g. in ELISA applications) • Protection against evaporation and contamination • Suitable for optical measurements.

SILVERseal™ : • Pierceable aluminium foil coated with an acrylate adhesive • Temperature resistant from -80° C to + 110° C • Ideal for PCR applications • Ideal for the storage of sample material and active agents.



Cat.-No.	676 001	676 090
Description	EASYseal™	SILVERseal™
Special feature	transparent	aluminium foil
Sterile	-	-
Quantity per case	100	100
Price/Each (Rs.)	45.00	120.00

VIEWseal™

VIEWseal™ : • Highly transparent film for optical measurements • Ideally suited for protein crystallography. • VIEWseal™ withstand heating at +110 °C and tolerates cold temperature down to -80 °C • suitable for PCR applications and sample storage



Cat.-No.	676 070
Description	VIEWseal™
Special feature	transparent
Sterile	-
Quantity per bag/case	100
Price/Each (Rs.)	310.00

AMPLIseal™ -New Sealer for Real-Time PCR and Fluorescence Measurements in HTS

AMPLIseal™ is a self-adhesive sealing film, notable for its low autofluorescence, in particular in the wavelength range critical for Real Time PCR. AMPLIseal™ consists of a 500 µm thick polypropylene film coated with a highly transparent acrylate adhesive. The adhesive layer is protected by a peelable polyester film. The strongly adhering acrylate adhesive provides a reliable sealing of the microplate, thereby minimising evaporation but without influencing the PCR reactions or the fluorescence measurements.

AMPLIseal™, with external dimensions of 141.3 mm x 79.3 mm, covers PCR microplates with a skirt and all other microplates with a standard microplate footprint. Protruding extra film can be removed without problem with a double perforation

Cat.-No.	676 040
Description	AMPLISeal™
Special feature	transparent
Sterile	-
Quantity per case	100
Price/Each (Rs.)	225.00

BREATHseal™

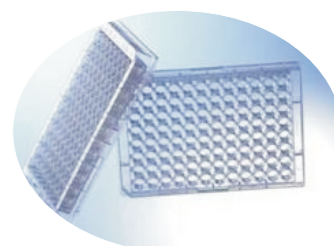
- Gas-permeable, pierceable membrane coated with acrylate adhesive
- Ideal for cultivating bacteria, yeast or cells
- Available non sterile or sterile



Cat.-No.	676 050	676 051
Description	BREATHseal™	BREATHseal™
Special feature	gas-permeable	gas-permeable
Sterile	-	+
Quantity per bag/case	50 / 100	50 / 100
Price/Each (Rs.)	135.00	160.00

CapMats - Ethyl Vinyl Acetate

An alternative method for sealing 96 well plates are CapMats. The 96 well CapMats are made of ethyl vinyl acetate (EVA). They are resistant to DMSO and can be used in a temperature range between -20 °C and +60 °C. 96 well CapMats with round naps (Cat.-No. 381 070, 381 061) Both are suitable for sealing the 1 ml and 0.5 ml 96 well MASTERBLOCK , in addition to standard 96 well polypropylene microplates. The 96 well F-, U- and Clear -bottom polystyrene microplates may also be sealed (except 96 well V-bottom polystyrene microplates). These CapMats are not pierceable. 96 well CapMats with square naps (Cat.-No. 381 080, 381 081) Both are suitable for the 2 ml 96 well MASTERBLOCK . These CapMats are not pierceable.



Cat.-No.	381 070	381 061	381 080	381 081
Description	96 well CapMat	96 well CapMat	96 well CapMat	96 well CapMat
Nap shape	round	round	square	square
Material	EVA	EVA	EVA	EVA
Pierceable	-	-	-	-
Sterile	-	+	-	+
Quantity per case	10 / 50	1 / 50	10 / 50	1 / 50
Price/Each (Rs.)	450.00	450.00	450.00	450.00

Analyser Cups/Scintillation Counter Vial

- Available for numerous established analytical systems, such as Technicon, Gemsac, Centrifchem, Hitachi, TOA and Coulter analysers.

Scintillation Counter Vial • Combination of the insertable tube with a push-in cap and the scintillation counter vial with a screw cap for an even safer handling of radioactivity.



Cat.-No.	729 101	668 102
Description	analyser cup	analyser cup
Material	polystyrene	polystyrene
Bottom design	conical	flat
Support skirt	+	-
Volume [ml]	1.7	25
Ø [mm]xheight [mm]	-	-
Cap	-	+
Suitable for	Hitachi	Coulter/Hycel
Quantity per bag/case	250 / 5000	250 / 1250
Price/Each (Rs.)	3.50	12.00

Reaction Tubes

- Available in different sizes
- Available for Eppendorf, Vitatron, Roche and Beckman systems
- Graduations on the side for easier volume readings
- High chemical and temperature resistance.



Cat.-No.	616 201	616 283	623 201	667 201	717 201*	722 201*	366 380
Description	reaction tube	reaction tube	reaction tube	reaction tube	reaction tube	reaction tube	screw cap
Colour	natural	brown	natural	natural	–	–	–
Volume [ml]	1.5	1.5	2.0	0.5	1.5	2.0	–
Graduation	+	+	+	–	–	–	–
Cap, attached	+	+	+	+	366 380	366 366	–
Suitable for	Eppendorf	Eppendorf	Eppendorf	Vitatron	–	–	–
Sterile	–	–	–	–	–	–	–
Quantity per bag/case	500 / 4000	500/4000	500 / 4000	1000 / 10000	500 / 5000	500 / 5000	500
Price/1000 (Rs.)	1350.00	5200.00	3400.00	3200.00	10.50 each	10.50 each	10.50 each

* with skirt

Semi - Micro / Macro Cuvette

- Ideal for enzymatic determinations, since the very thin walls enable rapid and uniform tempering
- Manufactured from crystal clear polystyrene
- Characterised by minimal light scatter with high transmission.



Cat.-No.	613 101	614 101
Description	semi-micro cuvette	macro cuvette
Volume [ml] / Material	3 / polystyrene	4 / polystyrene
Length [mm] x width [mm] x height [mm]	10 x 10 x 45	10 x 10 x 45
Quantity per box / case	100 / 1000	100 / 1000
Price/Each (Rs.)	8.75	8.75

Mailing Container

- Made of shock-resistant polyethylene (PE) and designed to withstand high mechanical stress
- Safe transport medium (delivery by post)
- Available with and without suction lining



Cat.-No.	228 270
Description	mailing container, angular with screw cap (loose)
Ø [mm] x height [mm]	30 x 114
Quantity per bag/case	500
Price/Each (Rs.)	45.00

Media Bottles

- Made of polyethylene terephthalate (PET)
- Available in three sizes
- Sterilised by irradiation
- With graduation

Cat.-No.	951 700	950 700	952 700
Description	media bottle	media bottle	media bottle
Design	tetragonal	tetragonal	tetragonal
Volume [ml]	100	500	1000
Sterile	+	+	+
Quantity per case	100	50	24
Price/Each (Rs.)	170.00	260.00	395.00



Special Marker Pens

- Water-resistant quick-drying special marker pens, ideal for labelling of all plastic articles and glassware
- Available in four colours and two writing thicknesses



Cat.-No.	840 073 to 077	841 073 to 077
Writing thickness	medium	super fine
Colour	red, blue, green & black	red, blue, green & black
Quantity per pack / case	1 / 10	1 / 10
Price/Each (Rs.)	180.00	215.00

Disposal Bags

- Ideal for the hygienic disposal of contaminated laboratory items

Standard disposal bags made of polypropylene foil for sterilisation in the steam autoclave. Oxygen transport rate of 50 μm PP foil (+23°C): 2380 $\text{cm}^3/(\text{m}^2 \times 24\text{h} \times \text{bar})$. Water vapour transport rate of 50 μm PP foil (+23°C, 85 % air humidity): 1.54g/($\text{m}^2 \times 24\text{h}$).

Standard disposal bags made of polypropylene, also available on request with imprint "Bio-Hazard" if a sufficient number is ordered. For users of hot-air sterilisers, disposal bags made of polyamide are available for use up to + 160°C.



Cat.-No.	643 201	644 201	646 201	649 201
Description	polypropylene	polypropylene	polypropylene	polypropylene
Width [mm] x length [mm]	300 x 500	400 x 780	600 x 780	700 x 1100
Foil thickness [mm]	0.05	0.05	0.05	0.05
Nominal capacity [l]	10	30	65	130
Suitable for steam autoclaves	+	+	+	+
Quantity per case	500	500	500	350
Price/Case (Rs.)	18000.00	21000.00	24500.00	32000.00

Cat.-No.	643 401	644 401	646 401	649 401
Description	polyamide	polyamide	polyamide	polyamide
Width [mm] x length [mm]	300 x 500	400 x 780	600 x 780	700 x 1100
Foil thickness [mm]	0.05	0.05	0.05	0.05
Nominal capacity [l]	10	30	65	130
Suitable for hot-air sterilisers	+	+	+	+
Quantity per case	500	500	300	200
Price/Case (Rs.)	37500.00	71000.00	60000.00	62500.00

Catalogue Overview Microplates

All Greiner Bio-One microplates listed in this catalogue are summarised with their respective page number below.

96 Well Microplates

Bottom	Colour	Well profile	Optical bottom base		Surface Quality										
			µClear bottom base	glass bottom base	TC treated, sterile	Advanced TC™ sterile	sterile	non-sterile	med. binding	high binding, sterile	non-binding	Streptavidin-coated	Poly-D-Lysine	Poly-L-Lysine	Collagen Type I
Polystyrene															
solid	clear	U-bottom			4		4, 17	17	27	27	24				
		V-bottom			4		17	17	27	27	24				
		F-bottom/standard					17	17	27	27					
		F-bottom/chimney well			4	10	4		27	27	24		11	11	11
		F-bottom/half area			4,5		18	18	27	27					
		C-bottom										25			
	white	F-bottom/chimney well			5				18	18	24				
		F-bottom/half area			4				18	18					
		C-bottom										25			
	black	F-bottom/chimney well			4				18	18	24				
		F-bottom/half area			4, 5				18	18					
		C-bottom										25			
optical	white	F-bottom/chimney well	■		4	10			18	18	24		11		
		F-bottom/half area	■		5	10			18	18					
	black	F-bottom/chimney well	■		5	10			18	18	24		11	11	11
		F-bottom/half area	■		4, 5	10			18	18					
	F-bottom/chimney well		■				25								
UV-Star®															
optical	clear	F-bottom/chimney well	■					25							
		F-bottom/half area	■					25							
Polypropylene															
solid, standard microplate	natural	U-bottom/chimney well					19	19							
		F-bottom/chimney well						19							
		V-bottom/chimney well						19							
	white	U-bottom/chimney well						19							
		F-bottom/chimney well						19							
		V-bottom/chimney well						19							
	black	U-bottom/chimney well						19							
		F-bottom/chimney well						19							
		V-bottom/chimney well						19							
solid, MASTERBLOCK®	0.5 ml	natural					23								
		natural					23								
	1 ml	yellow													
		red													
		blue													
		green													
		natural						23							
		yellow													
	2 ml	red													
		blue													
green															
green															

Technical appendix is subject to error and technical modifications.

384 Well Microplates

	Colour	Well profile	Optical bottom base		Surface Quality										
			µClear® bottom base	glass bottom base	TC- treated, sterile	Advanced TC™, sterile	sterile	non- sterile	med. binding	high binding, sterile	non- binding	Strepta- vidin- coated	Poly-D- Lysine	Poly-L- Lysine	Collagen Type I
Polystyrene															
solid	clear	F-bottom			5		19,20	19,20		20		25	11	11	11
		Small Volume™ HiBase							21						
		Small Volume™ LoBase					21	21							
	white	F-bottom			5					20	20	24	25		
		Small Volume™ HiBase								21		24			
		Small Volume™ LoBase			5					21					
	black	F-bottom			5					20	20	24	25		
		Small Volume™ HiBase								21		24			
		Small Volume™ LoBase			5					21					
optical	white	F-bottom	▪		5	10			21	20	24		11		
		Small Volume™ LoBase	▪		5	10			21						
	black	F-bottom	▪		5	10				20	20	24		11	11
		Small Volume™ HiBase	▪										11		
		Small Volume™ LoBase	▪		5	10				21					
			F-bottom		▪			25							
			Small Volume™ LoBase		▪			25							
		F-bottom extra LoBase		▪				26							
UV-Star®															
optical	clear	F-bottom	▪						25						
Polypropylene															
solid, standard microplate	natural	F-bottom							20						
		V-bottom							20						
		Deep Well Small Volume™							21						
	white	F-bottom							20						
		V-bottom							20						
	black	F-bottom							20						
V-bottom								20							
solid, MASTERBLOCK®	natural	V-bottom, Deep Well					23								

Microplates for Acoustic Liquid Handling

Polypropylene															
solid	natural	F-bottom							23						
Cycloolefin															
solid	clear	Small Volume™ LoBase							23						

Technical appendix is subject to error and technical modifications.

General Information for the Lab

Chemical Resistance of Various Materials

96 Well Microplates

	PS 20 °C	PS 50 °C	PP 20 °C	PP 50 °C	HDPE 20 °C	HDPE 50 °C	LDPE 20 °C	LDPE 50 °C
Acetic acid 10 %	1	1	1	1	1	1	1	1
Acetic acid 50 %	2	2	1	1	1	1	1	1
Acetic acid 90 %	4	4	1	2	1	1	1	2
Acetone	4	4	1	3	1	1	3	3
Acetonitrile	4	4	3	4	1	1	1	1
Ammonia 25 %	2	2	1	1	1	1	1	1
Ammonium acetate	1	1	1	1	1	1	1	1
Amyl alcohol	1	1	1	1	1	1	1	2
Ascorbic acid	-	-	1	1	1	-	1	-
Benzene	4	4	4	4	4	4	4	4
Benzyl alcohol	4	4	4	4	3	4	4	4
Boric acid 10 %	1	1	1	1	1	1	1	1
Carbon tetrachloride	4	4	4	4	3	4	4	4
Carbonic acid	1	1	1	1	1	3	1	1
Chloroform 100 %	4	4	3	4	3	-	3	-
Citric acid 10 %	1	1	1	1	1	1	1	1
Cyclohexanol	3	3	1	3	1	1	1	1
Detergents	-	-	1	1	-	-	-	-
Dichloroacetic acid	-	-	1	1	1	1	-	-
Diethyl ether	4	4	4	4	3	4	4	4
Dimethyl acetamide	4	4	1	1	1	1	3	4
Dimethylsulfoxide (DMSO)	1	2	1	1	1	1	1	1
Emulsifier	-	-	1	1	-	-	-	-
Ethanol 50 %	1	1	1	-	1	1	1	2
Ethanol 96 %	1	1	1	1	1	-	1	-
Ether	4	4	4	4	3	4	4	4
Formaldehyde 10 %	3	4	1	1	1	1	1	1
Formaldehyde 40 %	4	4	1	2	1	2	2	3
Formamide	1	1	1	1	1	1	1	1
Formic acid 50 %	3	3	1	2	1	1	1	2
Glucose	1	1	1	1	1	1	1	1
Glycerine	1	1	1	1	1	1	1	1
Heptane	4	4	3	3	2	3	3	4
Hexanol	-	-	1	-	1	-	1	-
Hydrochloric acid 20 %	1	1	1	1	1	1	1	1
Hydrochloric acid conc.	3	3	1	1	1	1	1	1
Hydrogen peroxide 3 %	1	1	1	1	1	1	1	1
Hydroquinone	4	4	1	-	-	-	1	3
Isoamyl alcohol	1	1	-	-	-	-	-	-
Isobutanol	2	2	1	1	1	1	1	1
Isopropanol	2	2	1	1	1	1	1	1
Isopropyl acetate	4	4	2	3	1	2	2	3
Isopropyl benzene	4	4	3	4	2	3	3	4
Isopropyl ether	4	4	4	4	4	4	4	4
Lactic acid 3 %	2	2	1	2	1	1	1	2
Lactic acid 85 %	2	2	1	2	1	1	1	1
Liquid paraffin	1	1	1	3	1	1	1	3
Methanol	3	4	1	1	1	1	1	1
Methyl propyl ketone	4	4	2	3	1	2	2	3
Methyl acetate	4	4	2	3	3	3	3	4

1 = resistant 2 = limited resistant 3 = moderate resistant 4 = no resistance

This table is a general guide only. As many factors can affect the chemical resistance of a given product, its suitability for a specific application should be tested.

Technical appendix is subject to error and technical modifications.

Chemical Resistance of Various Materials

	PS 20 C	PS 50 C	PP 20 C	PP 50 C	HDPE 20 C	HDPE 50 C	LDPE 20 C	LDPE 50 C
Methyl phenyl ether 100 %	4	4	3	-	-	-	3	-
Methylamine 32 %	-	-	1	-	1	-	1	-
Methylene chloride	4	4	3	4	4	4	4	4
Naphthalene	-	-	1	-	1	3	-	-
Nitrobenzene	4	4	4	4	3	4	4	4
Oxalic acid	1	1	1	1	1	1	1	1
Ozone	3	3	1	2	1	1	1	2
Palmitic acid	1	1	3	4	3	-	2	-
Phenol 10 %	4	4	1	1	1	1	1	1
Phenol 100 %	4	4	1	1	2	3	3	3
Phosphoric acid 1 – 5 %	2	2	1	1	1	1	1	1
Phosphoric acid 85 %	1	1	1	2	1	1	1	1
Phthalic acid	1	1	1	1	1	1	1	1
Potassium carbonate	1	1	1	1	1	1	1	1
Potassium chromate	1	1	1	1	1	1	1	-
Potassium permanganate	2	3	1	1	1	1	1	1
Propanol	3	3	1	1	1	1	1	1
Sodium hypochloride	1	1	2	3	2	3	2	3
Sodium acetate	2	2	1	1	1	1	1	1
Sodium hydroxide 30 %	1	1	1	1	1	1	1	1
Sodium hydroxide 45 %	1	1	1	1	1	1	1	1
Sodium hydroxide 60 %	1	1	1	1	-	-	-	-
Sodium permanganate	2	3	1	1	1	1	1	1
Sodium thiosulfate	1	1	1	1	1	1	1	1
Sodium chloride	1	1	1	1	1	1	1	1
Stearic acid	1	2	1	1	1	1	1	1
Sulphuric acid 1 – 6 %	1	2	1	1	1	1	1	1
Sulphuric acid 60 %	2	4	1	3	1	3	1	3
Sulphuric acid conc.	4	4	4	4	4	4	4	4
Tannin acid	1	1	1	1	-	-	-	-
Terpentine oil	-	-	-	-	3	4	3	4
Tetrahydrofuran	4	4	3	4	3	4	4	4
Toluene	4	4	3	4	3	4	3	4
Trichloroacetic acid	4	4	3	4	3	3	3	4
Urea	1	2	1	1	1	1	1	1
Uric acid	-	-	1	-	1	-	1	-
Urine	3	3	1	1	1	1	1	1
Xylene	4	4	4	4	2	3	2	4

1 = resistant 2 = limited resistant 3 = moderate resistant 4 = no resistance

This table is a general guide only. As many factors can affect the chemical resistance of a given product, its suitability for a specific application should be tested.

Chemical Resistance of Cycloolefin Microplates

	Cycloolefin	Cycloolefin	Cycloolefin
Acetic acid 99 %	1	Detergents	1
Acetone	1	DMSO	1
Ammonia 33 %	1	Ethanol 50 %	1
Benzaldehyde	3	Ethanol 96 %	1
Benzine	4	Fatty acid	4
Benzene	4	Heptane (n-Heptane)	4
Butanon	1	Hexane	4
Chloroform	4	Hydrochloric acid (HCl) 36 %	1
		Isopropanol	1
		Methanol	1
		Methylene chloride	4
		Nitric acid (HNO ₃)	1
		Pentane	4
		Sodium hydroxide (NaOH 50 %)	1
		Sulphuric acid (H ₂ SO ₄) 40 %	1

1 = resistant 2 = limited resistant 3 = moderate resistant 4 = no resistance

This table is a general guide only. As many factors can affect the chemical resistance of a given product, its suitability for a specific application should be tested.

Technical appendix is subject to error and technical modifications.

Chemical Resistance of UV-Star® Microplates

	UV-Star®		UV-Star®		UV-Star®
Acetic acid 99 %	1	Detergents	1	Isopropanol	1
Acetone	1	DMSO	1	Methanol	1
Ammonia 33 %	1	Ethanol 50 %	1	Methylene chloride	4
Benzaldehyde	3	Ethanol 96 %	1	Nitric acid (HNO ₃)	1
Benzene	4	Fatty acid	4	Pentane	4
Benzene	4	Heptane (n-Heptane)	4	Sodium hydroxide (NaOH 50 %)	1
Butanon	1	Hexane	4	Sulphuric acid (H ₂ SO ₄) 40 %	1
Chloroform	4	Hydrochloric acid (HCl) 36 %	1		

1 = resistant 2 = limited resistant 3 = moderate resistant 4 = no resistance

This table is a general guide only. As many factors can affect the chemical resistance of a given product, its suitability for a specific application should be tested.

Chemical Resistance of Polyethylene Terephthalate (PET) Capillary Pore Membranes (ThinCert™ Cell Culture Inserts)

Acetaldehyde	1	Ethanol	1	Monochlorobenzene	1
Acetic acid (10 %)	1	Ethyl acetate	1	Nitric acid (30 %)	1
Acetic acid (100 %)	3	Ethyl ether	1	Nitrobenzene	1
Acetone	1	Ethylendichloride	1	Nitropropane	1
Ammonium hydroxide (5 %)	1	Ethylene glycol	1	n-Propanol	1
Amyl acetate	1	Fluoric acid (35 %)	1	Pentane	1
Amyl alcohol	1	Formaldehyde	1	Perchloroethylene	1
Aniline	1	Formic acid (50 %)	1	Petroleum ether	1
Benzene	3	Freon	1	Phosphoric acid (85 %)	3
Benzyl alcohol	1	Glutaraldehyde	1	Potassium hydroxide	4
Benzyl benzoate	1	Glycerol	1	Propyl acetate	1
Boric acid (5 %)	1	H ₂ O ₂ (30 %)	1	Pyridine	1
Butanol	1	Halogenated phenoles	4	Silicon oil	1
Butyl acetate	1	Hexane	1	Sodium hydroxide	4
Butyl cellulose	1	Hydrochloric acid (20 %)	1	Sulphuric acid (25 %)	1
Carbon tetrachloride	1	i-Propanol	1	Terpentine oil	1
Chloroform	1	Isopropyl myristate	1	Tetrahydrofurane	1
Concentrated strong acids	4	Methanol	1	Tetraline	1
Cyclohexane	1	Methyl acetate	1	Toluene	3
Cyclohexanone	3	Methyl cellulose	1	Trichlorobenzene	1
Dekaline	1	Methylenchloride	3	Trichlorethylene	1
Dimethylacetamide	1	Methylethylketone	1	Triethanolamin	1
Dimethylformamide	1	Methylglycol acetate	1	Trikresyl phosphate	1
Dimethylsulfoxide	1	Methylisobutylketone	1	Xylene	3
Dioxane	1	Mineral oils	1		

For the solvents effecting slight changes the user should test the compatibility under the specific application conditions. All tests have been performed at RT. Please be aware that ThinCert™ cell culture inserts are made of PET membranes sealed on polystyrene housings. Therefore, solvents shown compatible with PET membranes in the above table might be incompatible with the polystyrene housing. Please check solvent compatibility with polystyrene.

Resistance scale from 1 to 4

- 1 = resistant i.e. the plastics may be treated with the chemical compound at mentioned temperature over several years without any significant alterations in its physical, optical and chemical properties
- 2 = limited resistant i.e. the plastics may be treated with the chemical compound at mentioned temperature over several weeks without any significant alterations in its physical, optical and chemical properties
- 3 = moderate resistant i.e. the plastics may be treated with the chemical compound at mentioned temperature for short time only (several minutes to one hour) without any alterations in physical, optical and chemical properties (mixing and measuring is possible)
- 4 = no resistance i.e. treating the plastics with the substance named may cause alterations in physical, optical and chemical properties within seconds

Technical appendix is subject to error and technical modifications.

Chemical Resistance of Sealers

	EASYseal™ (Cat.-No. 676 001)	VIEWseal™ (Cat.-No. 676 070)	AMPLIseal™ (Cat.-No. 676 040)	SILVERseal™ (Cat.-No. 676 090)
Acetone	4	4	4	3
Acetonitrile	3	3	4	1
Acetic acid 1 %	1	1	4	3
Glacial acetic acid	1	3	4	3
Chloroform	4	4	4	4
DMSO	3	3	3	1
Ethanol	3	1	1	1
Hydrochloric acid 32 %	3	1	3	4
Isopropanol	3	1	1	1
Methanol	3	1	4	1
Phenol	3	3	4	3
Sulphuric acid 0.5 M	1	1	1	1

1 = Stable no visible change in the sealer after one week's incubation
 3 = Moderately stable after one week, optical and physical changes in the sealer (clouding tears on removal)
 4 = Unstable adhesive and foil are dissolved, wells not leak-tight

This table can only be used as an orientation aid for the suitability of the respective sealers, since their behaviour against chemicals depends on the respective application. Tests under practical conditions are absolutely essential in many cases.

Temperature Stability of Sealers

	Temperature Stability
EASYseal™	-20 °C to + 60 °C
VIEWseal™	-80 °C to + 110 °C
AMPLIseal™	-80 °C to + 110 °C
SILVERseal™	-80 °C to + 110 °C
BREATHseal™	-80 °C to + 60 °C

Evaporation rate 4200 g HO/m² in 24 h

This table can basically be used as an orientation aid for the temperature stability of the respective sealers, since the behaviour of the product depends on the respective application. Tests under practical conditions are absolutely essential in many cases.

Abbreviations

AB	Antibody	PDL	Poly-D-Lysine
AB1	Primary Antibody	PET	Polyethylene Terephthalate
AB2	Secondary Antibody	PETG	Polyethylene Terephthalate Copolymer
AG	Antigen	pH	pH Value
AG-AB	Antigen-Antibody Complex	PLA	Poly lactate
ANSI	American National Standards Institute	PLL	Poly-L-Lysine
BHK-21 cells	Hamster Kidney Cells	PP	Polypropylene
cDNA	Complementary DNA	PS	Polystyrene
CHO cells	Chinese Hamster Ovary Cells	PTFE	Polytetrafluoroethylene
COC	Cycloolefins	RCG Cells	Rat Cerebellar Granule Cells
CV	Coefficient of Variation	RIA	Radio Immuno Assay
DMSO	Dimethyl Sulphoxide	RNA	Ribonucleic Acid
DNA	Deoxyribonucleic Acid	RNase	Ribonuclease
DNase	Deoxyribonuclease	rRNA	Ribosomal RNA
ECM	Extracellular Matrix	RT	Room Temperature
EIA	Enzyme Immuno Assay	SBS	Society for Biomolecular Sciences
EL-Rack	EasyLoad® Rack	SDS	Sodium Dodecyl Sulphate
ELISA	Enzyme Linked Immuno Sorbent Assay	SPA	Scintillation Proximity Assays
EVA	Ethyl Vinyl Acetate	ST-Rack	Standard Rack
FDA	Food and Drug Administration	TC	Tissue Culture
FIA	Fluorescence Immuno Assay	USP	United States Pharmacopoeia
F-Rack	Filter Tip Rack	UV Spectrum	Ultraviolet Spectrum
HDPE	High Density Polyethylene	VIS Spectrum	Visible Spectrum
HEK-293 Cells	Human Embryonic Kidney Cells		
HLA	Human Leucocyte Antigen	Units	
HTS	High-Throughput Screening	°C	Degree Centigrade
HUVEC	Human Umbilical Cord-endothelial Cells	Da	Dalton, the unit of molecular mass
IgG	Immunoglobulin G	g	Gram or Gravitational Acceleration (about 9.81 m/s ²)
ID-Card	Identity Card	Gy	Gray, Radiation Unit
LAL	Limulus Amoebocyte Lysate	h	Hour
LIA	Luminescence Immuno Assay	l	Liter
med.	Medium	M	Molarity, moles of solute per litre of solution
NIH-3T3 Cells	Mouse Fibroblast Cells	m	Meter
NMWC0	Nominal Molecular Weight Cut-Offs	min	Minute
PAGE	Polyacrylamide Gel Electrophoresis	Mol	Absolute Amount of Substance
PC	Polycarbonate	s	Second
PC 12 Cells	Rat Adrenal Pheochromocytoma Cells		
PCR	Polymerase Chain Reaction		

Technical appendix is subject to error and technical modifications.

Eppendorf-AG

LIQUID HANDLING & DISPENSING

Eppendorf Reference® (single channel adjustable - volume pipettes)

The patented Reference pipette is synonymous with pipetting accuracy, a smooth stroke, a compact and robust design and superior operating comfort. One multifunctional button operates measuring stroke and blow-out as well as ejects the tip.

Features:- • Fully autoclavable • One button operation for aspiration, dispensing and tip ejection • Volume is automatically locked (this is only appropriate for the adjustable volume units. • Chemically resistant. • One handed operation. • 4-digit display.



Cat#	Description	Price/ Each(Rs.)
4910 000.085	Eppendorf Reference adjustable volume pipette (0.1-2.5 μ l)	23790.00
4910 000.018	Eppendorf Reference adjustable volume pipette (0.5-10 μ l)	23790.00
4910 000.026	Eppendorf Reference adjustable volume pipette (2-20 μ l), grey	23790.00
4910 000.034	Eppendorf Reference adjustable volume pipette (2-20 μ l), yellow	23790.00
4910 000.042	Eppendorf Reference adjustable volume pipette (10-100 μ l)	23790.00
4910 000.093	Eppendorf Reference adjustable volume pipette (50-200 μ l)	23790.00
4910 000.069	Eppendorf Reference adjustable volume pipette (100-1000 μ l) blue	23790.00
4910 000.077	Eppendorf Reference adjustable volume pipette (500-2500 μ l) red	23790.00

epReference³ Pack

- **Option 1:** 3 Eppendorf Reference® PhysioCare Concept pipettes (0.5-10 μ l, 10-100 μ l, 100-1000 μ l), 3 refillable epT.I.P.S. pipette tips boxes with 96 tips each.
- **Option 2:** 3 Eppendorf Reference® PhysioCare Concept pipettes (2-20 μ l, 50-200 μ l, 100-1000 μ l), 3 refillable epT.I.P.S. pipette tips boxes with 96 tips each.



Cat#	Description	Price/ Each(Rs.)
4910 000.506	epReference ³ Pack, Option 1	54450.00
4910 000.514	epReference ³ Pack, Option 2	54450.00

Eppendorf Research® Plus (adjustable-volume pipettes- Fully Autoclavable.)

- **Volume adjustment:** Only a few turns to reach your desired volume
- **Control button:** Very low operating force, colour indicates pipette volume, positioned for perfect ergonomics
- **Ejector:** Very low operating force, positioned for perfect ergonomics
- **Volume display:** 4 digits, magnifying shape
- **Calibration display & adjustment opening:** Calibrate your pipette to a specific liquid and volume
- **Eppendorf PerfectPiston™:** Ultra light piston made of Fortron® (not in 2.5 μ l, 10 μ l, 5 ml and 10 ml pipettes)
- **Quick connection clip:** Remove lower part easily (not in 5 ml and 10 ml pipettes)
- **Spring loaded tip cone:** Improved ergonomics, tight fit to the tip (not in 5 ml and 10 ml pipettes)



Cat#	Description	Price/ Each(Rs.)
3120 000.011	Research plus, adjustable, 0.1-2.5 μ l with tip box	23790.00
3120 000.020	Research plus, adjustable, 0.5-10 μ l with tip box	23790.00
3120 000.038	Research plus, adjustable, 2-20 μ l, yellow, with tip box	23790.00
3120 000.097	Research plus, adjustable, 2-20 μ l, grey, with tip box	23790.00
3120 000.046	Research plus, adjustable, 10-100 μ l with tip box	23790.00
3120 000.054	Research plus, adjustable, 20-200 μ l with tip box	23790.00
3120 000.100	Research plus, adjustable, 30-300 μ l with tip box	23790.00
3120 000.062	Research plus, adjustable, 100-1000 μ l with tip box	23790.00
3120 000.070	Research plus, adjustable, 0.5-5 ml without tip box	23790.00
3120 000.089	Research plus, adjustable, 1-10 ml without tip box	23790.00

LIQUID HANDLING & DISPENSING

Eppendorf Research® Plus Basic Pack (adjustable volume pipettes- Fully Autoclavable)

- **Volume adjustment:** Only a few turns to reach your desired volume
- **Control button:** Very low operating force, colour indicates pipette volume, positioned for perfect ergonomics
- **Ejector:** Very low operating force, positioned for perfect ergonomics
- **Volume display:** 4 digits, magnifying shape
- **Calibration display & adjustment opening:** Calibrate your pipette to a specific liquid and volume
- **Eppendorf PerfectPiston™:** Ultra light piston made of Fortron® (not in 2.5 µl, 10 µl, 5 ml and 10 ml pipettes)
- **Quick connection clip:** Remove lower part easily (not in 5 ml and 10 ml pipettes)
- **Spring loaded tip cone:** Improved ergonomics, tight fit to the tip (not in 5 ml and 10 ml pipettes)



Cat#	Description	Price/ Each(Rs.)
3120 000.216	Research plus, adjustable, 0.1-2.5 µl, without tip box	19300.00
3120 000.224	Research plus, adjustable, 0.5-10 µl, without tip box	19300.00
3120 000.232	Research plus, adjustable, 2-20 µl, Yellow, without tip box	19300.00
3120 000.291	Research plus, adjustable, 2-20 µl, Grey, without tip box	19300.00
3120 000.240	Research plus, adjustable, 10-100 µl, without tip box	19300.00
3120 000.259	Research plus, adjustable, 20-200 µl, without tip box	19300.00
3120 000.305	Research plus, adjustable, 30-300 µl, without tip box	19300.00
3120 000.267	Research plus, adjustable, 100-1000 µl, without tip box	19300.00
3120 000.275	Research plus, adjustable, 0.5-5 ml, without tip box	19300.00
3120 000.283	Research plus, adjustable, 1-10 ml, without tip box	19300.00

Eppendorf Research® Plus 3- Pack

Option 1:

• Eppendorf Research® plus 3-Pack Option 1: -3 pipettes (0.5–10 µl, 10–100 µl, 100–1,000 µl) + 3 reusable ep.T.I.P.S.® boxes with 96 pipette tips each and 1 x Pipette Pen.

Option 2:

Eppendorf Research® plus 3-Pack, Option 2: 3 pipettes (2–20 µl, 20–200 µl, 100–1,000 µl) + 3 reusable ep.T.I.P.S.® boxes with 96 pipette tips each and 1 x Pipette Pen.

Option 3:

Eppendorf Research® plus 3-Pack, Option 3: 3 pipettes (0.1–1 ml, 0.5–5 ml, 1–10 ml) with samples of matching pipette tips and 1 x Pipette Pen.



Cat#	Description	Price/ Each(Rs.)
3120 000.909	Eppendorf Research plus 3-Pack, Option 1	58510.00
3120 000.917	Eppendorf Research plus 3-Pack, Option 2	58510.00
3120 000.925	Eppendorf Research plus 3-Pack, Option 3	58510.00

Eppendorf Research® Plus (fixed-volume)

- **Volume adjustment:** Only a few turns to reach your desired volume
- **Control button:** Very low operating force, colour indicates pipette volume, positioned for perfect ergonomics
- **Ejector:** Very low operating force, positioned for perfect ergonomics
- **Volume display:** 4 digits, magnifying shape
- **Calibration display & adjustment opening:** Calibrate your pipette to a specific liquid and volume
- **Eppendorf PerfectPiston™:** Ultra light piston made of Fortron®
- **Quick connection clip:** Remove lower part easily (not in 10 µl pipettes)
- **Spring loaded tip cone:** Improved ergonomics, tight fit to the tip



Cat#	Description	Price/ Each(Rs.)
3121 000.015	Research plus, fixed 10 µl, grey	13960.00
3121 000.023	Research plus, fixed 10 µl, yellow	13960.00
3121 000.031	Research plus, fixed 20 µl, grey	13960.00
3121 000.040	Research plus, fixed 20 µl, yellow	13960.00
3121 000.058	Research plus, fixed 25 µl	13960.00
3121 000.066	Research plus, fixed 50 µl	13960.00
3121 000.074	Research plus, fixed 100 µl	13960.00
3121 000.082	Research plus, fixed 200 µl, yellow	13960.00
3121 000.090	Research plus, fixed 200 µl, blue	13960.00
3121 000.104	Research plus, fixed 250 µl	13960.00
3121 000.112	Research plus, fixed 500 µl	13960.00
3121 000.120	Research plus, fixed 1000 µl	13960.00

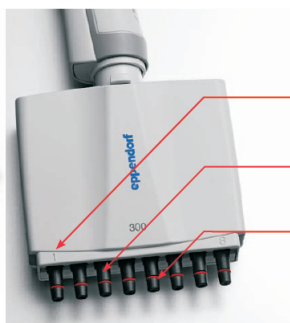
LIQUID HANDLING & DISPENSING

Eppendorf Pipette Stands



Cat#	Description	Box Size	Price/ Each(Rs.)
3115 000.003	Pipette carousel for 6 pipettes	1 pcs.	13910.00
3115 000.020	Pipette holder for wall mounting	1 pcs.	2230.00
4860 000.267	Charging stand for one pipette, 230V/50Hz	1 pcs.	23440.00
4860 000.860	Charging stand for four pipette, 230V/50Hz	1 pcs.	42820.00
4981 203.009	Multipipette plus wall mount	1 pcs.	2370.00

Eppendorf Research® Plus (multi-channel pipettes)



- Channel indicator:**
– Use the pipette the same way round – all the time
- Remove any of the independent channels:**
– Gain flexibility for individual needs
- Spring loaded tip cone:**
– Improved ergonomics
– Tight fit to the tip



Eppendorf sets a new standard in pipetting. The ultra light Eppendorf Research plus pipette meets the highest needs in precision and accuracy – combined with ultimate ergonomics and increased flexibility. It is a good feeling to know you are doing the right thing – to know you are working with one of the most advanced pipette in the world. A spring loaded tip cone, a secondary calibration option, an improved volume display – and all that in an ultra light, fully autoclavable pipette: That is the new Eppendorf Research plus pipette.

Ergonomics: The more strain you experience, the less energy you have. And because energy is a very precious and exhaustible resource, we try to use it as efficiently as possible. Thus the Eppendorf Research plus has been developed within the strict criteria of the Eppendorf PhysioCare Concept®. PhysioCare Concept® stands for ultimate durability, intuitive operation and above all for perfect balance and minimal user exertion.

Flexibility: Your next experiment will need new pipetting schemes. Your new laboratory might have different sources of contamination. Your new pipette should offer all the flexibility you need. Calibrate your Research plus to your needs, autoclave the entire pipette or only the lower part. Choose among single channel, multi channel and fix-volume pipettes in different sizes.

Robustness: Durability was tested thoroughly and has met the highest quality requirements. Resistance to chemical, thermal and mechanical stress is now unchallenged.

Cat#	Description	Price/ Each(Rs.)
Research plus, 8-Channel Multichannel Micropipettes		
3122 000.019	Research plus, 8-channel 0.5-10 μ l	70140.00
3122 000.035	Research plus, 8-channel 10-100 μ l	70140.00
3122 000.051	Research plus, 8-channel 30-300 μ l	70140.00

Research plus 12-Channel Multichannel Micropipettes

3122 000.027	Research plus, 12-channel 0.5-10 μ l	76660.00
3122 000.043	Research plus, 12-channel 10-100 μ l	76660.00
3122 000.060	Research plus, 12-channel 30-300 μ l	76660.00
0030 058.607	Reagent reservoir for reagent take up with multichannel pipette, autoclavable, filling volume 50-60 ml, 1 set=10 pcs.	2770.00

LIQUID HANDLING & DISPENSING

Xplorer®, Electronic Pipette Single channel

- Multifunctional rocker: "Up is up and down is down"™ Principle
- Easy selection of all functions with the practical selection dial
- Innovative ejector: When the tip is ejected, the piston automatically returns to zero position
- Reduced weight and Improved ergonomics.



Cat#	Description	Price/Each(Rs.)
4861 000.015	Eppendorf Xplorer, single-channel, 0.5-10 µl, for pipette tips 20 µl	54630.00
4861 000.023	Eppendorf Xplorer, single-channel, 5-100 µl, for pipette tips 200 µl	54630.00
4861 000.031	Eppendorf Xplorer, single-channel, 15-300 µl, for pipette tips 300 µl	54630.00
4861 000.040	Eppendorf Xplorer, single-channel, 50-1000 µl, for pipette tips 1000 µl	54630.00
4861 000.058	Eppendorf Xplorer, single-channel, 0.25-5 ml, for pipette tips 5 ml	54630.00
4861 000.066	Eppendorf Xplorer, single-channel, 0.5-10 ml, for pipette tips 10 ml	54630.00

Xplorer®, Electronic pipette 8- Channel Multichannel Pipette

Cat#	Description	Price/Each(Rs.)
4861 000.104	Eppendorf Xplorer, 8-Channel, 0.5-10 µl, for pipette tips 20 µl	80880.00
4861 000.120	Eppendorf Xplorer, 8-Channel, 5-100 µl, for pipette tips 200 µl	80880.00
4861 000.147	Eppendorf Xplorer, 8-Channel, 15-300 µl, for pipette tips 300 µl	80880.00
4861 000.163	Eppendorf Xplorer, 8-Channel, 50-1200 µl, for pipette tips 1250 µl	80880.00

Xplorer®, Electronic pipette 12- Channel Multichannel Pipette

Cat#	Description	Price/Each(Rs.)
4861 000.112	Eppendorf Xplorer, 12-Channel, 0.5-10 µl, for pipette tips 20 µl	96220.00
4861 000.139	Eppendorf Xplorer, 12-Channel, 5-100 µl, for pipette tips 200 µl	96220.00
4861 000.155	Eppendorf Xplorer, 12-Channel, 15-300 µl, for pipette tips 300 µl	96220.00

Varispenser® & Varispenser® Plus

(Fully autoclavable, with no disassembly necessary)



Features

Varispenser® and Varispenser® plus

- ▶ Fine adjustment depending on viscosity of liquid
- ▶ No crystallization of liquid
- ▶ Simple cleaning/maintenance due to modular construction
- ▶ Telescopic tube for use with high bottles
- ▶ Rapid volume setting using precise graduation scale
- ▶ No dripping when valve closed.
- ▶ Non-jamming sliding piston with cleaning ring

Varispenser®

Bottle top dispenser, for external bottle threads of 32 mm (sizes 1, 2 and 3) or 45 mm (sizes 4, 5 and 6), complete with telescopic tube, tool and 3 adapters (see below). Quality certificate.

Cat #	Description	Increment	Price/Each (Rs.)
4960 000.019	Varispenser® Bottle-top Dispenser (0.5-2.5 ml)	0.05 ml	22030.00
4960 000.027	Varispenser® Bottle-top Dispenser (1.0-5.0 ml)	0.10 ml	22030.00
4960 000.035	Varispenser® Bottle-top Dispenser (2.0-10.0 ml)	0.20 ml	22030.00
4960 000.043	Varispenser® Bottle-top Dispenser (5.0-25.0 ml)	0.50 ml	29080.00
4960 000.051	Varispenser® Bottle-top Dispenser (10.0-50.0 ml)	1.00 ml	32250.00
4960 000.060	Varispenser® Bottle-top Dispenser (20.0-100.0 ml)	2.00 ml	42470.00

Varispenser® plus has Patented safety valve for deaeration without reagent loss in addition to above features.

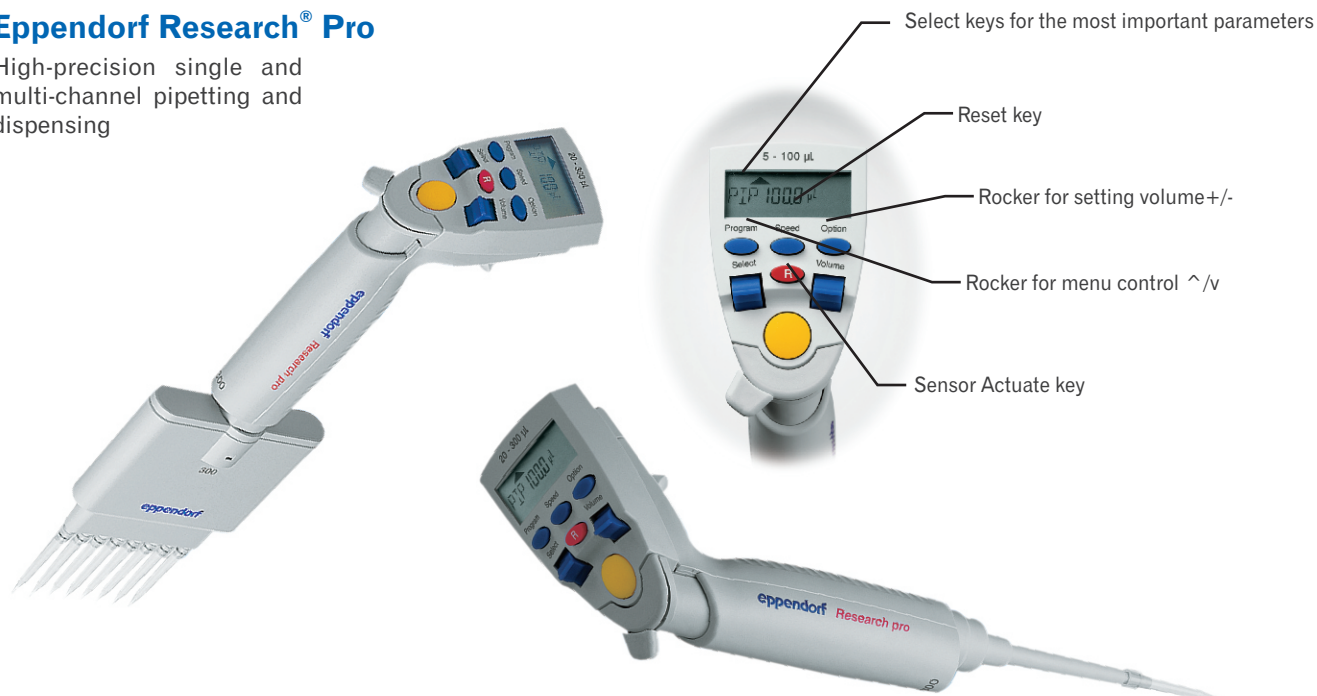
Varispenser® plus

4961 000.012	Varispenser® plus Bottle-top Dispenser (0.5-2.5ml)	0.05 ml	26080.00
4961 000.020	Varispenser® plus Bottle-top Dispenser (1.0-5.0ml)	0.10 ml	26080.00
4961 000.039	Varispenser® plus Bottle-top Dispenser (2.0-10.0ml)	0.20 ml	26080.00
4961 000.047	Varispenser® plus Bottle-top Dispenser (5.0-25.0ml)	0.50 ml	34720.00
4961 000.055	Varispenser® plus Bottle-top Dispenser (10.0-50.0ml)	1.00 ml	37710.00
4961 000.063	Varispenser® plus Bottle-top Dispenser (20.0-100.0ml)	2.00 ml	47050.00

LIQUID HANDLING & DISPENSING

Eppendorf Research® Pro

High-precision single and multi-channel pipetting and dispensing



Our aim : Maximum versatility.

In addition to the standard pipetting technique, the Research® Pro can also be used to perform the following techniques

- Pipetting with Blow-out
- Pipetting with Rinse
- Manual Pipetting
- Reverse Pipetting
- Dispensing
- Programming
- Fixed Volume
- Sequential Pipetting
- Sequential Dispensing
- Automatic dispensing
- Dilution
- Serial Dilution

Research® Pro-Single-Channel & Multi Channel Pipettes

- Change volume directly (in pipetting and dispensing mode)
- 5 freely-programmable memories for all common program variants
- Reset = emergency key (interrupts any function immediately)
- Removable, autoclavable and maintenance-friendly bottom part
- Three beeper functions, two of which can be turned off if required
- No sacrifice of precision and accuracy, even at high pipetting speed

Cat #	Description	Price/Each (Rs.)
4860 000.011	Research® Pro (0.5-10 µl) with charging adapter	47410.00
4860 000.020	Research® Pro (5-100 µl) with charging adapter	47410.00
4860 000.038	Research® Pro (20-300 µl) with charging adapter	47410.00
4860 000.046	Research® Pro (50-1000 µl) with charging adapter	47410.00
4860 000.054	Research® Pro (100-5000 µl) with charging adapter	47410.00
4860 000.518	Research® Pro 8 Channel (0.5 - 10µl) with charging adapter	78240.00
4860 000.534	Research® Pro 8 Channel (5 - 100µl) with charging adapter	78240.00
4860 000.550	Research® Pro 8 Channel (20 - 300µl) with charging adapter	78240.00
4860 000.577	Research® Pro 8 Channel (50 - 1200µl) with charging adapter	95330.00
4860 000.526	Research® Pro 12 Channel (0.5 - 10µl) with charging adapter	93040.00
4860 000.542	Research® Pro 12 Channel (5 - 100µl) with charging adapter	93040.00
4860 000.569	Research® Pro 12 Channel (20 - 300µl) with charging adapter	93040.00

LIQUID HANDLING & DISPENSING

Multipette® Plus & Biopur®



Multipette stream and Multipette Xstream at a glance

Feature	Multipette stream	Multipette Xstream
Positive displacement principle	•	•
Rapid, ergonomic dispensing with motorized piston.	•	•
Automatic Combitip plus tip recognition	•	•
One button tip ejector, Li-ion battery	•	•
Automatic dispensing & Pipetting	•	•
Dispensing	•	•
Aspiration (pipetting of supernatant)	•	•
Titration	•	•
Sequential dispensing	•	•

Multipette® Dispensers

Cat #	Description	Price/Pack (Rs.)	Pack
4981 000.019	Multipette® plus 4981	27320.00	Each
4986 000.017	Multipette stream, includes charging adapter, (100–240 V/50–60 Hz)	69780.00	Each
4986 000.025	Multipette Xstream, includes charging adapter, (100–240 V/50–60 Hz)	89340.00	Each

Combitips® Advanced®

- Ideal system component for all Multipettes including Multipette plus, Multipette® pro (electronic model)
- 9 different Combitip plus • 20 different dispensing volumes per Combitip size • Reliable results guaranteed by positive displacement • Fine tip of Combitips guarantees exact dispensing without additional pipette tip • Available as standard and Eppendorf Biopur® quality.

0030 048.369	0.05ml Syringe (1-10µl)	7830.00	50
0030 048.083	1.25 ml Syringe (25-250µl)	7100.00	100
0030 048.024	12.5 ml Syringe (250-2500µl)	7100.00	100
Suitable syringes for Multipette® plus 4981			
0030 089.405	Combitips advanced® Standard 0.1 ml, white	6610.00	100
0030 089.413	Combitips advanced® Standard 0.2 ml, light blue	6610.00	100
0030 089.421	Combitips advanced® Standard 0.5 ml, purple	6610.00	100
0030 089.430	Combitips advanced® Standard 1.0 ml, yellow	6610.00	100
0030 089.448	Combitips advanced® Standard 2.5 ml, green	6610.00	100
0030 089.456	Combitips advanced® Standard 5.0 ml, blue	6610.00	100
0030 089.464	Combitips advanced® Standard 10 ml, orange	6610.00	100
0030 089.472	Combitips advanced® Standard 25 ml, red	7810.00	100
0030 089.480	Combitips advanced® Standard 50 ml, light grey	8550.00	100

Adapter for Syringes

0030 089.715	Adapter for 25ml Syringe (Blue)	730.00	Each
0030 089.723	Adapter for 50ml Syringe (Anthracite)	730.00	Each

Biopur® Combitips (Individually packed)

0030 089.618	Combitips Plus Biopur, 0.1 ml, white	12200.00	100
0030 089.626	Combitips Plus Biopur 0.2 ml, light blue	12200.00	100
0030 089.634	Combitips Plus Biopur 0.5 ml, purple	12200.00	100
0030 089.642	Combitips Plus Biopur 1.0 ml, yellow	12200.00	100
0030 089.650	Combitips Plus Biopur 2.5 ml, green	12200.00	100
0030 089.669	Combitips Plus Biopur 5.0 ml, blue	12200.00	100
0030 089.677	Combitips Plus Biopur 10 ml, orange	12200.00	100
0030 089.685	Combitips Plus Biopur 25 ml, red	14120.00	100
0030 089.693	Combitips Plus Biopur 50 ml, light grey	15350.00	100

LIQUID HANDLING & DISPENSING

Standard Tips Eppendorf Quality

• Drop contour gives all the tips a uniform look • Soft, flexible cone results in better pipette tip seal • Ergonomically optimized cone geometry allows perfect fit on the eppendorf pipette tip • Universally applicable, also for use with pipettes from other manufacturers • New tip design enables better access to a wider variety of tips and wells • Finely tapered and extended tips for working with small volumes • All pipette tips meet the "Eppendorf Quality" purity standard.



Cat#	Description	Price/ Box(Rs.)
0030 000.811	Standardtips, 0.1-10 μ l, 34 mm, (1000 tips per box)	6230.00
0030 000.838	Standardtips, 0.1-20 μ l, 40 mm (1000 tips per box)	6230.00
0030 000.854	Standardtips, 0.5-20 μ l Long version, 46 mm (1000 tips per box)	5910.00
0030 000.870	Standardtips, 2-200 μ l, 53 mm, yellow (1000 tips per box)	3830.00
0030 000.897	Standardtips, 20-300 μ l, 55 mm, yellow (1000 tips per box)	3830.00
0030 000.919	Standardtips, 50-1,000 μ l, 71 mm, blue (1000 tips per box)	3830.00
0030 000.935	Standardtips, 50-1,250 μ l, 76 mm (1000 tips per box)	6520.00
0030 000.951	Standardtips, 500-2,500 μ l, 115 mm (500 tips per box)	4480.00
0030 000.978	Standardtips, 100-5,000 μ l, 120 mm (500 tips per box)	5240.00
0030 000.765	Standardtips, 1-10 ml, 165 mm (200 tips per box)	5400.00
0030 000.781	Standardtips, 1 - 10ml, Long version, 243 mm (200 tips per box)	7690.00

epTI.P.S. Box Eppendorf Quality

• Contamination-free transfer of trays to the working box • System optimized for use with multichannel pipettes • Color-coded trays for simple identification of tips and matching Eppendorf® pipette • Tips can be attached to the pipette from the the refill trays • Refill trays are entirely autoclavable for future use • Space saving packaging • All pipette tips meet the "Eppendorf Quality" purity standard.



Cat#	Description	Price/ Box(Rs.)
0030 073.002	epTIPS Box, 0.1-10 μ l, 34 mm, 1 reusable box incl. 96 tips	2970.00
0030 073.029	epTIPS Box, 0.1-20 μ l, 40 mm, 1 reusable box incl. 96 tips	2970.00
0030 073.061	epTIPS Box, 2-200 μ l, 53 mm, 1 reusable box incl. 96 tips	2650.00
0030 073.088	epTIPS Box, 20-300 μ l, 55 mm, 1 reusable box incl. 96 tips	2650.00
0030 073.100	epTIPS Box, 50-1000 μ l, 71 mm, 1 reusable box incl. 96 tips	2650.00
0030 073.126	epTIPS Box, 50-1250 μ l, 76 mm, 1 reusable box incl. 96 tips	2970.00
0030 073.142	epTIPS Box, 500-2500 μ l, 115 mm, 1 reusable box incl. 48 tips	3490.00
0030 073.169	epTIPS Box, 100-5000 μ l, 120 mm, 1 reusable box incl. 24 tips	3140.00

Easypet® pipetting aid

• Suitable for pipettes of 0.1ml to 100ml • Smooth setting of the pumping efficiency • High aspirating speed: 25ml in 5 sec. • One finger control for the Flow-Out and Blow-Out functions • Cordless work for up to seven hours, continuing directly after recharging • Autoclavable pipette adapters and filter holders • Active pressure compensation prevents corrosion caused by aspirated vapor • Space-saving wall holder.



Cat#	Description	Price/ Each(Rs.)
4430 000.018	Eppendorf Easypet® 3 incl. power supply, wall mounting device, shelf stand, 2 membrane filters (unsterile) 0.45 μ m	40180.00
4421 601.009	Membrane filter, 0.45 μ m, sterile, (pack of 5 pcs.)	11250.00
4430 606.005	Membrane filter, 0.2 μ m, sterile, (pack of 5 pcs.)	11250.00
4430 605.009	Lithium-polymer rechargeable battery for Eppendorf Easypet® 3	3230.00

LIQUID HANDLING & DISPENSING

Top Buret

Our innovative Top Buret sets new standards for manual titration. Its pulse-free dispensing technique allows the desired volumes to be dispensed continuously, thus making titration simpler and safer, with precision values well within required limits. The volume is dispensed by simply rotating the wheels: Model M features a dispensing rate of 2,500 μ l per rotation; Model H features a rate of 5,000 μ l per rotation. The display readings on both models range from 0.01 ml to 999.9 ml. This bottle-Top Buret is extremely sturdy, and its user-friendly display and control features provide simple, fatigue-free operation.

Features:- • Patented recirculation valve for priming without loss of reagent • Voltage supply with long-life primary cells and charging display • Dispensing range from 0.01 ml to 999.9 ml • Removable electronics unit • Modular, service-friendly construction • Simple calibration program • Discharge tube can be rotated a full 360° • Adjustable filling tube horizontal: 142–220 mm; vertical: 10–200 mm • Telescopic filling tube for automatically setting the length from 210 mm to 370 mm • For 45 mm bottle threads.



Top buret with safety valve, telescopic aspiration tube, adjustable discharge tube, for 45 mm bottle threads, incl. three adapters for 40/38/32 mm threads, two 1.5 V microbatteries, certificate of conformity.

Cat#	Description	Price/ Each(Rs.)
4965 000.017	Eppendorf Top Buret M, 25 ml.	84760.00
4965 000.025	Eppendorf Top Buret H, 50 ml.	84760.00

Protein LoBind Tube

Protein LoBind Tubes are specifically designed for use in proteomics or other fields of protein research (antibodies, cell biology, peptide drugs etc.), where samples tend to be very small and sample recovery is vital. LoBind tubes improve recovery by reducing sample-to-tube binding -without the use of any additives or coatings. A combination of specially developed technology and the purest, selected polypropylene results in tube binding that ensures minimal loss (<3%). Enzymes remain active, and they are not denatured by any tube-surface interactions.

Features:- • Minimized protein loss • Free of surface coating e.g. silicone • Free of DNA, Dnase, RNase and ATP (PCR Clean) • Special polypropylene material manufactured under optimized processing conditions • Available in 0.5ml, 1.5ml and 2.0ml sizes



Cat#	Description	Box Size	Price/ Box(Rs.)
0030 108.094	Protein LoBind Tubes, PCR clean, 0.5ml	100 tubes	1430.00
0030 108.116	Protein LoBind Tubes, PCR clean, 1.5ml	100 tubes	1080.00
0030 108.132	Protein LoBind Tubes, PCR clean, 2.0ml	100 tubes	1730.00

DNA LoBind Tube

DNA LoBind Tubes improve recovery by reducing sample-to-tube binding-without the use of any coatings or additives!

A combination of specially developed technology and the purest. select polypropylene ensures nearly 100% recovery of DNA/RNA from the tube.

All LoBind tubes are Eppendorf-certified PCR clean and available in a variety of sizes. Each box is packaged in bags of 50 tubes to further reduce the risk of contamination.

Features:- • Significantly reduced DNA loss: <0.3% less at standard reaction conditions, <1% less at high salt concentrations • Free of surface coating e.g. silicone • Free of DNA, Dnase, RNase and ATP (PCR Clean) • Special polypropylene material manufactured under optimized processing conditions • Available in 0.5ml, 1.5ml and 2.0ml sizes • Safe - Lock Lid • Rated to



Cat#	Description	Box Size	Price/ Box(Rs.)
0030 108.035	DNA LoBind Tubes, PCR clean, 0.5ml	250 tubes	2680.00
0030 108.051	DNA LoBind Tubes, PCR clean, 1.5ml	250 tubes	1490.00
0030 108.078	DNA LoBind Tubes, PCR clean, 2.0ml	250 tubes	1780.00

LIQUID HANDLING & DISPENSING

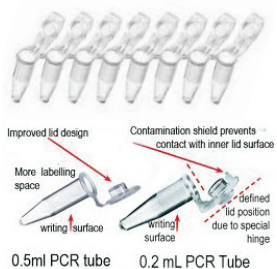
Polypropylene Microcentrifuge/Standard Tubes



Cat#	Description	Box Size	Price/Box(Rs.)
22 36 413-8	PP Standard Tubes, amber, 1.5ml	500	525.00
22 36 416-2	PP Standard Tubes, red, 1.5ml	500	525.00
22 36 418-9	PP Standard Tubes, green, 1.5ml	500	525.00
22 36 419-7	PP Standard Tubes, blue, 1.5ml	500	525.00

Eppendorf® 0.2 ml PCR Tubes & Strips

- Optimized for use in Eppendorf Mastercycler PCR instruments
- Contamination shield on hinged lid
- Special hinge allows lid to click into a defined position of approximately 90°
- High transparency
- Tight Seal & Easy to open.
- For use with all thermal cyclers with 0.2 ml block format.
- Certified to be free of any detectable human DNA, DNase and PCR-Inhibitors



Cat#	Description	Box Size	Price/Box(Rs.)
0030 124.332	0.2 ml PCR tubes, colorless	1000 pcs.	14190.00
0030 124.359	Eight-tube strip for 0.2 ml PCR Tubes, pack of 120 (=960 tubes)	960 pcs.	17560.00
0030 124.537	0.5ml PCR tubes, colorless	500 pcs	4920.00

Safe-Lock Tubes- 0.5 ml, 1.5 ml, 2.0 ml,



Cat#	Description	Box Size	Price/Box(Rs.)
0030 121.023	Standard Quality, 0.5 ml, Colorless	500 pcs.	4780.00
0030 120.086	Standard Quality, 1.5 ml, Colorless	1000 pcs.	4830.00
0030 120.094	Standard Quality, 1.5 ml, Colorless	1000 pcs.	6580.00
Eppendorf microcentrifuge tube 3810X			
0030 125.150	Micro test tube 3810x (1.5 ml) Colorless	1000 pcs.	4160.00

GELoader® Tips

- Special tip for gel electrophoresis.
- Ideal for loading samples onto sequencing gels.
- Attached directly out of rack with pipette.
- GELoader Tips and rack autoclavable (121°C, 20 min.)



Cat#	Description	Price/Box(Rs.)
0030 001.222	GELoader 0.5-20µl, 62 mm (2 racks of 96 tips = 192 tips)	7850.00

PCR-Cooler

- Superior to an ice bath-safe from contamination
- Useful of PCR sample preparation
- Useful for the protection, transport and storage of sensitive samples.
- By changing color from violet to pink or from dark blue to light blue, the PCR Cooler shows when upper temperature value of 7° C has been exceeded.
- Cools sensitive samples reliably for more than an hour at 0° C (with 2 hour precooling at -20° C)
- For 0.2 ml and 0.5 ml reaction tubes / PCR tubes strips and PCR plates 96.



Cat#	Description	Box Size	Price/Box(Rs.)
3881 000.015	PCR-Cooler 0.2 ml Starter Set (1xpink, 1x blue)	1 set	10580.00
3881 000.023	PCR-Cooler 0.2 ml Pink	1 piece	5770.00
3881 000.031	PCR-Cooler 0.2ml blue	1 piece	5770.00

LIQUID HANDLING & DISPENSING

twin.tec PCR Plates

• U-shaped inner contour of the well enhances sample visibility • Continuous skirt for compatibility with automated systems • Eight holes in the skirt aid plate positioning and removal from the thermal cycler block, e.g., with grippers • Skirted for label or barcode • Stackable • Within SBS footprint recommendations • Ideal for most common 384 well thermocyclers, particularly for Eppendorf Mastercycler® ep 384 • 45 µl max. well volume.



Cat#	Description	Price/Box (Rs.)
	twin.tec PCR Plate 96, skirted (clear wells), 25 pcs.	
0030 128.648	twin.tec PCR Plate 96, skirted (Well colorless), Colorless	14190.00
	twin.tec PCR Plate 96, semi-skirted (colourless wells), 25 pcs.	
0030 128.575	twin.tec PCR Plate 96, skirted colourless well	14190.00
	twin.tec PCR Plate 384, (colourless wells), 25 pcs.	
0030 128.508	twin.tec PCR Plate 384, colourless well	22030.00

twin.tec real-time PCR plates



- For best results with Eppendorf Realplex realtime PCR.
- White wells for better reflection.
- The intensity of fluorescence measured by the instrument is up to 10-fold higher than with frosted wells. • High mechanical stability.
- Raised rims for effective sealing.
- Optimal heat transfer due to reduced wall thickness
- Autoclavable (121° C, 20 min.)

Cat#	Description	Box Size	Price/ Box(Rs.)
	twin.tec 96 real-time PCR plates, skirted		
0030 132.513	twin.tec 96 real-time PCR plates, skirted, white	25 pcs.	17060.00
0030 132.505	twin.tec 96 real-time PCR plates, skirted, blue	25 pcs.	17060.00
0030 132.521	twin.tec 96 real-time PCR plates, skirted, black	25 pcs.	17060.00
	twin.tec 96 real-time PCR plates, semi-skirted		
0030 132.548	twin.tec 96 real-time PCR plates, semi-skirted, white	25 pcs.	17060.00
0030 132.530	twin.tec 96 real-time PCR plates, semi-skirted, blue	25 pcs.	17060.00
0030 132.556	twin.tec 96 real-time PCR plates, semi-skirted, black	25 pcs.	17060.00
0030 132.874	Masterclear Cap Strips	10x12 = 120 pcs.	9890.00
0030 132.882	real-time PCR Tube Strips	10x12 = 120 pcs.	16360.00
0030 132.890	Masterclear Cap Stripes and real-time PCR Tube Strips	10x12 = 120 pcs.	25730.00
0030 132.904	Masterclear adhesive real-time film	100 pcs	27490.00

Iso Therm-System

• Useful to prevent enzymes from becoming inactive during PCR set up. • Useful for sample transport and slow thawing of frozen samples. • The Iso Therm System specializes in cooling samples effectively and constantly at -21° C or 0° C over many hours. • Isotherm-system consists of the following components: the IsoRack (work rack), IsoPack (cool pack) and IsoSafe (insulating box)



Cat#	Description	Box Size	Price/ Box(Rs.)
3880 000.011	IsoTherm-System Starter Set for 0.5 ml tubes	1 No.	16110.00
3880 001.018	IsoTherm-System Starter Set for 1.5/2.0 ml tubes	1 No.	16110.00

LIQUID HANDLING & DISPENSING

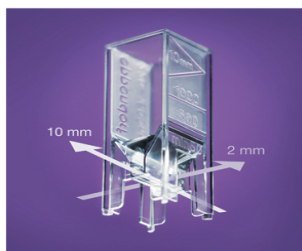
Eppendorf Biopur (single sterile)

- Individually wrapped pipette tips in Eppendorf Biopur quality: guaranteed sterile, Rnase-, DNA-ATP- and pyrogen-free.
- Batch number and expiration date printed on each blister pack.



Cat#	Description	Price/ Box(Rs.)
0030 010.019	Eppendorf Biopur (Sterile) 100 tips, 0.1-20 μ l	2700.00
0030 010.035	Eppendorf Biopur (Sterile) 100 tips, 2.0-200 μ l	2700.00
0030 010.051	Eppendorf Biopur (Sterile) 100 tips, 50-1000 μ l	2700.00

Uvette®



- Suitable for Eppendorf BioPhotometer Plus.
- Disposable cuvette for spectrophotometric analyses in UV and VIS-transparent between 220 nm and 1,600 nm.
- Suitable for measuring small volumes ($\geq 50 \mu$ l)
- Individually blister-packed for contamination-free work.
- DNA, RNase and protein-free
- Two optical path lengths: 2 mm and 10 mm
- Adapters available for use with other common spectrophotometers

Cat#	Description	Box Size	Price/ Box(Rs.)
0030 106.300	UVette, 80 cuvettes, individually packed	80 pcs.	6330.00
0030 106.318	UVette routine pack, 2x100 pcs	200 pcs.	13220.00
4099 100.007	Starterset: 80 Uvettes + 1 uni-center height (incl. GeneQuant)	1 pack	9310.00

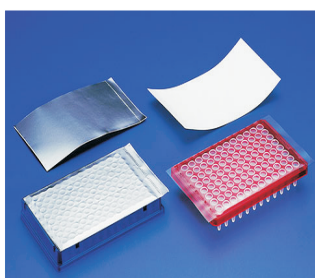
Electroporation cuvettes



- Plastic cuvette with aluminum electrodes
- Three sizes with 100 μ l, 400 μ l and 800 μ l filling capacity (1 mm, 2 mm and 4 mm gap width).
- Individually wrapped and gamma-irradiated to ensure sterility.
- Design ensures correct positioning in the cuvette holder.
- Gap width marked on the side of every cuvette to simplify identification.
- Frosted area permits easy labeling.

Cat#	Description	Box Size	Price/ Box(Rs.)
4307 000.569	Electroporation cuvettes, gap width 1 mm, 100 μ l, sterile.	50 pcs.	27100.00
4307 000.593	Electroporation cuvettes, gap width 2 mm, 400 μ l, sterile.	50 pcs.	27100.00
4307 000.623	Electroporation cuvettes, gap width 4 mm, 800 μ l, sterile.	50 pcs.	27100.00

Sealing Options



Cat#	Description	Box Size	Price/ Box(Rs.)
0030 127.811	PCR Film (Self-adhesive)	100 pcs.	15140.00
0030 127.820	PCR Foil (Self-adhesive)	100 pcs.	15140.00
0030 127.838	Heat Sealing Film	100 pcs.	18330.00
0030 127.854	Heat Sealing Foil	100 pcs.	11970.00

Serana (WA) Pty Ltd.

SERA

FOETAL BOVINE SERUM

Foetal Bovine Serum passes through a series of filters terminating with triple 0.1 μm pore size pharmaceutical grade sterile filters. The product is dispensed in a Class 100 laminar flow workstation via a closed system and then immediately frozen.

From collection of raw sera through to the final sterile filtered product, Serana manages and documents all processes involved. This certifies full traceability from the animal through to the end product. Full batch records including Certificates of Origin, Certificates of Suitability, Certificates of Analysis and other batch release documents are available to all of our customers.

Various treatments are also available:

- ! Heat inactivated
- Gamma Irradiated
- All Australian Origin



Foetal Bovie Serum

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-FBS-AU-011	Foetal Bovine Serum Triple 0.1 μm sterile filtered	AUS	100	On request
S-FBS-AU-015	Foetal Bovine Serum Triple 0.1 μm sterile filtered	AUS	500	On request

Foetal Bovie Serum- Heat Inactivated

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-FBS-AU-021	Foetal Bovine Serum Heat Inactivated	AUS	100	On request
S-FBS-AU-025	Foetal Bovine Serum Heat Inactivated	AUS	500	On request

Foetal Bovie Serum- Gamma Irradiated

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-FBS-AU-031	Foetal Bovine Serum Gamma Irradiated	AUS	100	On request
S-FBS-AU-035	Foetal Bovine Serum Gamma Irradiated	AUS	500	On request

Foetal Bovie Serum- Charcoal Stripped

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-FBS-AU-041	Foetal Bovine Serum Charcoal Stripped	AUS	100	On request
S-FBS-AU-045	Foetal Bovine Serum Charcoal Stripped	AUS	500	On request

Foetal Bovie Serum- Dialysed

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-FBS-AU-061	Foetal Bovine Serum Dialysed	AUS	100	On request
S-FBS-AU-065	Foetal Bovine Serum Dialysed	AUS	500	On request

Foetal Bovie Serum- Ultra low IgG

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-FBS-AU-051	Foetal Bovine Serum Ultra low IgG	AUS	100	On request
S-FBS-AU-055	Foetal Bovine Serum Ultra low IgG	AUS	500	On request

Calf Serum

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-CS-AU-011	Calf Serum 0.2 μm sterile filtered	AUS	100	On request
S-CS-AU-015	Calf Serum 0.2 μm sterile filtered	AUS	500	On request

Newborn Calf Serum

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-NCS-AU-011	Newborn Calf Serum 0.2 μm sterile filtered	AUS	100	On request
S-NCS-AU-015	Newborn Calf Serum 0.2 μm sterile filtered	AUS	500	On request

Newborn Calf Serum-Heat Inactivated/Gamma Irradiated

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S-NCS-AU-021	Newborn Calf Serum, Heat Inactivated	AUS	100	On request
S-NCS-AU-025	Newborn Calf Serum, Heat Inactivated	AUS	500	On request
S-NCS-AU-311	Newborn Calf Serum, Gamma Irradiated	AUS	500	On request
S-NCS-AU-315	Newborn Calf Serum, Gamma Irradiated	AUS	500	On request

Biowest

SERUM

Foetal Bovine Serum

Biowest Foetal Bovine Serum is derived from clotted whole blood aseptically collected from foetus via cardiac puncture. Each manufactured batch is rigorously controlled, from the collection of serum and throughout all stages of its treatment and production through to final packaging on our premises. The Foetal Bovine Serum is analyzed, classified, and tested by Biowest before shipment to customers all over the world. Each batch is delivered with a Certificate of Analysis.



Cat #	Description	Category	Vol. (ml)	Price/Bottle (Rs.)
S1810-100	Foetal Bovine Serum	Colombia Origin	100	On request
S1810-500	Foetal Bovine Serum	Colombia Origin	500	On request
S1650-100	Foetal Bovine Serum	Mexico Origin	100	On request
S1650-500	Foetal Bovine Serum	Mexico Origin	500	On request

Foetal Bovine Serum Heat Inactivated

Heat Inactivation (56°C-30min.): This treatment allows to destroy the complement acting in the immune system to avoid an interference with some experimentation, in particular the tests of immunology. It allows also to inactivate viruses and to destroy some bacterial contaminants such as the mycoplasma.

Cat #	Description	Category	Vol. (ml)	Price/Bottle (Rs.)
S181H-100	Foetal Bovine Serum Heat Inactivated	Colombia/Mexico Origin	100	On request
S181H-500	Foetal Bovine Serum Heat Inactivated	Colombia/Mexico Origin	500	On request

Foetal Bovine Serum Gamma Irradiated

The serum is gamma irradiated at 25 kGy. **Gamma irradiated serum** minimizes the risk associated with the use of animal products and offers protection against low levels of microbial contaminants. The treatment inactivates the viruses of foot and mouth disease, vesicular stomatitis, rinderpest, peste des petits ruminants, Rift valley fever, bluetongue while maintaining growth promotion potential.

Cat #	Description	Category	Vol. (ml)	Price/Bottle (Rs.)
S181G-100	Foetal Bovine Serum Gamma irradiated	Colombia/Mexico Origin	100	On request
S181G-500	Foetal Bovine Serum Gamma irradiated	Colombia/Mexico Origin	500	On request

Instant Sterile Foetal Bovine Serum

Instant FBS is a powdered, soluble Foetal Bovine Serum offering many unique benefits.

Easy to use :

- Dilution in cell culture water or directly in cell culture media. • 3 g of instant FBS is equivalent to 50 ml of liquid FBS. • 3g pre-packed in tubes for 500 ml Media (10% FBS)

Storage:

- Instant FBS is stored at +2/+8° C. The Shelf life is 3 years.

Quality:

- Same quality as liquid FBS. • No more aliquoting and refreezing of FBS.
- Minimized risk of contamination.

Environmental:

- No more shipment on dry ice, reducing cost and CO₂ pollution.
- No storage in energy consuming freezers in the lab.
- Less weight and volume transported; no freezer truck, for reduced transport cost and less environmental contamination



Cat #	Description	Category	Vol. (gm)	Price/Each (Rs.)
S381G-No.05L	Instant Sterile FBS	South America	3 g	On request
S381G-No.5L	Instant Sterile FBS	South America	30 g	On request

New Born Calf Serum

Cat #	Description	Category	Vol. (ml)	Price/Each (Rs.)
S0750-500	New Born Calf Serum	Costa Rica	500	On request

Cell Culture Media



BASAL MEDIUM EAGLE (BME)

Basal Medium Eagle is principally used for diploid or primary cell cultures. It is the simplest of the basal media with all essential components for growth. BME ideally supports cell lines such as HeLa, L-cells and primary mammalian fibroblasts.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0042-500	BME w/Earle's Salts w/o L-Glutamine	500 ml	1150.00
L0044-500	BME w/Earle's Salts w/o L-Glutamine w/25 mM Hepes	500 ml	1500.00
L0045-500	BME w/Earle's Salts w/ L-Glutamine w/25 mM Hepes	500 ml	on request
L0046-500	BME w/Hanks' Salts w/o L-Glutamine	500 ml	1400.00

CMRL 1066

CMRL was originally formulated for promoting «L» Earle cells growth.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0053-500	CMRL 1066 w/o L- Glutamine	500 ml	2625.00

DULBECCO'S MODIFIED EAGLE MEDIUM

Dulbecco's Modified Eagle Medium (DMEM) is for supporting and maintaining a broad spectrum of mammalian cell types

DMEM High Glucose

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0100-500	DMEM High Glucose w/o L-Glutamine w/25 mM Hepes	500 ml	1600.00
L0101-500	DMEM High Glucose w/o L-Glutamine w/o Sodium Pyruvate	500 ml	1150.00
L0102-500	DMEM High Glucose w/ L-Glutamine w/o Sodium Pyruvate	500 ml	1300.00
L0103-500	DMEM High Glucose w/Stable Glutamine w/ Sodium Pyruvate	500 ml	1250.00
L0104-500	DMEM High Glucose w/ L-Glutamine w/ Sodium Pyruvate	500 ml	1250.00
L0106-500	DMEM High Glucose w/o L-Glutamine w/ Sodium Pyruvate	500 ml	1150.00
L0107-500	DMEM High Glucose w/Stable Glutamine w/ 25mM Hepes	500 ml	1500.00

DMEM low Glucose

Cat #	Description	Vol.	Price/Bottle(Rs.)
L0060-500	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate	500 ml	1250.00
L0064-500	DMEM Low Glucose w/o L-Glutamine w/ Sodium Pyruvate	500 ml	1150.00
L0065-500	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/ 25 mM Hepes	500 ml	1350.00
L0066-500	DMEM Low Glucose w/ Stable Glutamine w/ Sodium Pyruvate	500 ml	1250.00

DMEM - Ham's F12

Studies to determine the nutritional requirements of many cells have been in progress since Eagle's first reports. The major essential nutrients were identified and work became focused on the media requirements of individual cell types. Many media designed for these purposes are now available.

Among the first of these media, developed initially to study hormonal requirements of cells in culture, was a mixture of DMEM medium and Ham's F12 medium, known as DMEM Ham's F12.

Cat #	Description	Vol	Price/Bottle (Rs.)
L0090-500	DMEM-F12 w/o L- Glutamine w/o Hepes	500 ml	1350.00
L0091-500	DMEM-F12 w/o L-Glutamine w/o Hepes w/o Glucose	500 ml	1400.00
L0092-500	DMEM-F12 w/ Stable Glutamine w 15 mM Hepes	500 ml	1400.00
L0093-500	DMEM-F12 w/ L-Glutamine w/ 15 mM Hepes	500 ml	1400.00
L0094-500	DMEM-F12 w/o L-Glutamine w/ 15 mM Hepes	500 ml	1400.00
L0095-500	DMEM-F12 w/ L-Glutamine w/ 25 mM Hepes	500 ml	1600.00
L0096-500	DMEM-F12 w/o L-Glutamine w/ 25 mM Hepes	500 ml	1600.00

GLASGOW MEM BHK 21

GMEM was originally formulated for BHK 21 cells growing. It is intended for use with adherent cell lines.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0221-500	GMEM BHK 21 w/L-Glutamine w/o Tryptose Phosphate Broth	500 ml	on request
L0222-500	GMEM BHK 21 w/o-Glutamine w/o Tryptose Phosphate Broth	500 ml	on request

HAM'S F10 (F-10 NUTRIENT MEDIUM)

To support the growth of Chinese Hamster Ovary Cells under serum free conditions and other mammalian cell types with serum supplementation. It is a popular medium for growth of fastidious cells lines.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0130-500	Ham's F10 w/L-Glutamine w/ 25 mM Hepes	500 ml	1400.00
L0140-500	Ham's F10 w/ L-Glutamine	500 ml	1300.00
L0145-500	Ham's F10 w/o L-Glutamine	500 ml	1300.00

HAM'S F12 (F-12 NUTRIENT MEDIUM)

Ham's F12 was originally developed for the serum-free clonal growth of Chinese Hamster Ovary (CHO) cells, lung cell and mouse L-cells. It is frequently used with dialysed serum, hormones, selenium and other supplements for serum-free cultures. It is the medium of choice for supporting the growth of cells of rodent origin, particularly rabbit and rat and has proved to be an excellent cloning medium for the culture of myeloma and hybrid cells.

Cat #	Description	Vol.	Price/Each (Rs.)
L0135-500	Ham's F12 w/L-Glutamine	500 ml	1350.00
L0136-500	Ham's F12 w/o L-Glutamine	500 ml	1350.00

HAM'S F14 (F-14 NUTRIENT MEDIUM)

Ham's F14 medium was developed from the Ham's F12 which was originally developed for the serum-free clonal growth of Chinese Hamster Ovary (CHO) cells, lung cells and mouse L-cells. Ham's F14 contains a double concentration of amino acids compared to the Ham's F12. This product is also supplemented in Calcium chloride and Ascorbic Acid.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0138-500	Ham's F14 w/6g/L- glucose w/1mg/L ATP	500 ml	5200.00

ISCOVE'S MODIFIED DULBECCO'S MEDIUM (IMDM)

In 1976, Guilbert and Iscove demonstrated that precursor cells of erythrocytes and macrophages could be cultured in a reduced-serum medium supplemented with albumin, transferrin, lecithin, and selenium. Iscove's medium is a modification of Dulbecco's Modified Eagle's Medium (DME) containing selenium, additional amino acids and vitamins, sodium pryuvate, HEPES buffer, and potassium nitrate instead at ferric nitrate. Further studies demonstrated that Iscove's Medium would support murine B lymphocytes, hemopoietic tissue from bone marrow, B Cells stimulated with lipopolysaccharide, T lymphocytes, and a variety of hybrid cells.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0190-500	IMDM w/ L-Glutamine w/ 25 mM Hepes	500 ml	1475.00
L0191-500	IMDM w/ stable Glutamine w/ 25 mM Hepes	500 ml	1475.00
L0192-500	IMDM w/o L-Glutamine w/o Hepes	500 ml	1300.00

LEIBOVITZ L-15 MEDIUM

The Leibovitz L-15 media were formulated to promote the cell growth in medium not balanced in Co₂. The formulations were developed with the sodium bicarbonate buffer. The Leibovitz L-15 media are buffered by a complement of salts, free base amino acids and galactose so they can be used under conditions of free gaseous exchange with the atmosphere. when properly supplemented, L-15 Medium supports established cell lines, such as HEP-2 and LLC-MK2, as well as primary explants of embryonic and adult human tissue. Many viruses also have been successfully cultivated in this medium

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0300-500	Leibovitz L15 Medium w/o L-Glutamine	500 ml	1950.00

MC COY'S 5A MEDIUM

Mc Coy's media were originally formulated for growth and support of lymphocytes. This final modification produced a medium identical to RPMI 1629. McCoy's 5A media support the indefinite proliferation of Walker 256 carcinoma cells. In addition, it is excellent for the propagation of leukocytes, biopsy tissues, a broad range of human and rat normal or transformed cell types, the most current primary and continuous cell lines.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0210-500	McCoy's 5A w/ L-Glutamine	500 ml	1950.00
L0211-500	McCoy's 5A w/o L-Glutamine	500 ml	1950.00

MEDIUM 199

A longterm cultivation of cells required addition of a serum. When properly supplemented, Medium 199 has broad species applicability, particularly for cultivation of non-transformed cells. It is widely used in virology, vaccine production and in vitro cultivation of primary explants of mouse pancreatic epithelial and rat lens tissues.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0330-500	Medium 199 w/ Hanks' Salt w/L-Glutamine	500 ml	1500.00
L0355-500	Medium 199 w/ Earle's Mod. Salts w/L-Glutamine w/1.25g/ I Sodium Bicarbonate	500 ml	1400.00

MEDIUM 199

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0356-500	Medium 199 w/ Earle's Salts w/o L-Glutamine	500 ml	1550.00
L0360-500	Medium 199 w/ Earle's Salts w/L-Glutamine w/25 mM Hepes	500 ml	1950.00

MINIMUM ESSENTIAL MEDIA (MEM)

Minimum Essential Medium (MEM) with Earle's Balanced Salts is a modification of Eagle's earlier medium Basal Medium Eagle (BME), containing higher concentrations of the essential nutrients. These media have demonstrated the ability to support a variety of normal and transformed cells in culture and contain Earle's Balanced Salts, which make them suitable for use in atmospheres charged with CO² gas.

MEM w/Earle's Salts

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0415-500	MEM w/ Earle's Salts w/ L-Glutamine	500 ml	1300.00
L0416-500	MEM w/ Earle's Salts w/ Stable Glutamine	500 ml	1300.00
L0430-500	MEM w/ Earle's Salts w/o L-Glutamine w/ NEAA	500 ml	1400.00
L0440-500	MEM w/ Earle's Salts w/o L-Glutamine	500 ml	1150.00
L0444-500	MEM w/ Earle's Salts w/ L-Glutamine w/ 25 mM Hepes	500 ml	1400.00
L0445-500	MEM w/ Earle's Salts w/o L-Glutamine w/ 25 mM Hepes	500 ml	1400.00

MEM w/Hanks' Salts

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0465-500	MEM w/ Hanks' Salts Solution w/o L-Glutamine	500 ml	1500.00
L0470-500	MEM w/ Hanks' Salts w/o L-Glutamine w/ 25 mM Hepes	500 ml	1850.00

MEM Alpha Modification

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0475-500	MEM Alpha w/ L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	500 ml	1500.00
L0476-500	MEM Alpha w/o L-Glutamine w/o Ribonucleosides w/o Deoxyribonucleosides	500 ml	1500.00

RPMI 1640 MEDIUM

RPMI are general purpose enriched media with extensive applications for a broad spectrum of mammalian and hybridoma cells including human myeloma, mouse hybridoma, human leukocytes, and B and T lymphocytes. It was originally formulated for suspension cultures and monolayer culture of human leukemia cells.

Cat #	Description	Vol.	Price/Each (Rs.)
L0500-100	RPMI 1640 w/ L-Glutamine	100 ml	500.00
L0500-500	RPMI 1640 w/ L-Glutamine	500 ml	1150.00
L0500-1000	RPMI 1640 w/ L-Glutamine	1000 ml	1500.00
L0501-100	RPMI 1640 w/o L-Glutamine	100 ml	500.00
L0501-500	RPMI 1640 w/o L-Glutamine	500 ml	1050.00
L0501-1000	RPMI 1640 w/o L-Glutamine	1000 ml	1500.00
L0498-500	RPMI 1640 w/ stable Glutamine	500 ml	1150.00
L0495-500	RPMI 1640 w/ L-Glutamine w/ 25 mM Hepes	500 ml	1300.00
L0496-500	RPMI 1640 w/ Stable Glutamine w/ 25 mM Hepes	500 ml	1300.00
L0490-500	RPMI 1640 w/o L-Glutamine w/ 25 mM Hepes	500 ml	1400.00
L0492-500	RPMI 1640 Dutch Modification w/o L- Glutamine w/1g/1Na Bicarbonate w/20 mM Hepes	500 ml	1500.00
L0503-500	RPMI 1640 w/o L-Glutamine w/o Folic Acid	500 ml	1800.00
L0505-500	RPMI 1640 w/o L-Glutamine w/o Phenol Red	500 ml	1350.00

SCHNEIDER'S DROSOPHILA MEDIUM

Cat #	Description	Vol.	Price/Each (Rs.)
L0207-500	Schneider's Drosophila Medium	500 ml	2250.00

SERUM REDUCED MEDIA- MCDB

These media were formulated as a reduced serum supplemented medium for the cultivation of human microvascular endothelial cells. For other microvascular cells it is recommended to use it with growth factors like EGF or hormones like hydrocortisone.

Cat #	Description	Vol.	Price/Each (Rs.)
L1200-500	MCDB 105	500 ml	On request
L1202-500	MCDB 131	500 ml	On request
L1203-500	MCDB 151	500 ml	On request
L1205-500	MCDB 201	500 ml	On request
L1206-500	MCDB 302	500 ml	On request

Cell Culture Powdered Media



BASAL MEDIUM EAGLE (BME)

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0030-N1L	BME w/Earle's Salts w/L-Glutamine w/o Sodium Bicarbonate	1 Ltr	1050.00
P0030-N10L	BME w/Earle's Salts w/L-Glutamine w/o Sodium Bicarbonate	10 Ltr	9800.00
P0030-N50L	BME w/Earle's Salts w/L-Glutamine w/o Sodium Bicarbonate	50 Ltr	44100.00

CMRL 1066

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0058-N1L	CMRL 1066 w/L-Glutamine w/o Sodium Bicarbonate	1 Ltr	4150.00
P0058-N10L	CMRL 1066 w/L-Glutamine w/o Sodium Bicarbonate	10 Ltr	23500.00
P0058-N50L	CMRL 1066 w/L-Glutamine w/o Sodium Bicarbonate	50 Ltr	105750.00

DULBECCO'S MODIFIED EAGLE MEDIUM

Dulbecco's Modified Eagle Medium (DMEM) is for supporting and maintaining a broad spectrum of mammalian cell types

DMEM High Glucose

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0102-N1L	DMEM High Glucose w/ L-Glutamine w/o Sodium Biocarbonate w/ Sodium Pyruvate	1 Ltr	415.00
P0102-N10L	DMEM High Glucose w/ L-Glutamine w/o Sodium Biocarbonate w/ Sodium Pyruvate	10 Ltr	2350.00
P0102-N50L	DMEM High Glucose w/ L-Glutamine w/o Sodium Biocarbonate w/ Sodium Pyruvate	50 Ltr	10575.00
P0103-N1L	DMEM High Glucose w/ L-Glutamine w/o Sodium Biocarbonate w/o Sodium Pyruvate	1 Ltr	415.00
P0103-N10L	DMEM High Glucose w/ L-Glutamine w/o Sodium Biocarbonate w/o Sodium Pyruvate	10 Ltr	2350.00
P0103-N50L	DMEM High Glucose w/ L-Glutamine w/o Sodium Biocarbonate w/o Sodium Pyruvate	50 Ltr	10575.00

DMEM low Glucose

Cat #	Description	Vol.	Price/Bottle(Rs.)
P0061-N1L	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/o Sodium Bicarbonate	1 Ltr	415.00
P0061-N10L	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/o Sodium Bicarbonate	10 Ltr	2350.00
P0061-N50L	DMEM Low Glucose w/ L-Glutamine w/ Sodium Pyruvate w/o Sodium Bicarbonate	50 Ltr	10575.00

DMEM - Ham's F12

Cat #	Description	Vol	Price/Bottle (Rs.)
P0095-N1L	DMEM-F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	1 Ltr	720.00
P0095-N10L	DMEM-F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	10 Ltr	3960.00
P0095-N50L	DMEM-F12 w/ L-Glutamine w/o Sodium Bicarbonate w/ 15 mM Hepes	50 Ltr	17500.00

FISHER'S MEDIUM

Fisher's medium supports the growth and maintenance of Murine Leukemic cells.

Cat #	Description	Vol	Price/Bottle (Rs.)
P0105-N1L	Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	1 Ltr	750.00
P0105-N10L	Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	10 Ltr	4125.00
P0105-N50L	Fisher's Medium w/ L-Glutamine w/o Sodium Bicarbonate	50 Ltr	18500.00

GLASGOW MEM BHK 21

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0120-N1L	GMEM BHK 21 w/L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	1 Ltr	550.00
P0120-N10L	GMEM BHK 21 w/L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	10 Ltr	2640.00
P0120-N50L	GMEM BHK 21 w/L-Glutamine w/o Sodium Bicarbonate w/o Tryptose Phosphate Broth	50 Ltr	11850.00

HAM'S F10 (F-10 NUTRIENT MEDIUM)

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0146-N1L	Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	1 Ltr	450.00
P0146-N10L	Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	10 Ltr	2250.00
P0146-N50L	Ham's F10 w/ L-Glutamine w/o Sodium Bicarbonate	50 Ltr	10125.00

HAM'S F12 (F-12 NUTRIENT MEDIUM)

Cat #	Description	Vol.	Price/Each (Rs.)
P0134-N1L	Ham's F12 w/L-Glutamine w/o Sodium Bicarbonate	1 Ltr	495.00
P0134-N10L	Ham's F12 w/L-Glutamine w/o Sodium Bicarbonate	10 Ltr	2970.00
P0134-N50L	Ham's F12 w/L-Glutamine w/o Sodium Bicarbonate	50 Ltr	13500.00

ISCOVE'S MODIFIED DULBECCO'S MEDIUM (IMDM)

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0191-N1L	IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	1 Ltr	950.00
P0191-N10L	IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	10 Ltr	6500.00
P0191-N50L	IMDM w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	50 Ltr	29250.00

LEIBOVITZ L-15 MEDIUM

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0350-N1L	Leibovitz L15 Medium w/ L-Glutamine	1 Ltr	1250.00
P0350-N10L	Leibovitz L15 Medium w/ L-Glutamine	10 Ltr	8800.00
P0350-N50L	Leibovitz L15 Medium w/ L-Glutamine	50 Ltr	39500.00

MC COY'S 5A MEDIUM

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0390-N1L	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	1 Ltr	800.00
P0390-N10L	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	10 Ltr	5800.00
P0390-N50L	McCoy's 5A w/ L-Glutamine w/o Sodium Bicarbonate	50 Ltr	26100.00

MEDIUM 199

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0410-N1L	Medium 199 modified w/ Hanks' Salt w/o L-Glutamine w/o Sodium Bicarbonate	1 Ltr	1130.00
P0410-N10L	Medium 199 modified w/ Hanks' Salt w/o L-Glutamine w/o Sodium Bicarbonate	10 Ltr	6100.00
P0410-N50L	Medium 199 modified w/ Hanks' Salt w/o L-Glutamine w/o Sodium Bicarbonate	50 Ltr	27500.00
P0420-N1L	Medium 199 w/ Earle's Salt w/ L-Glutamine w/o Sodium Bicarbonate	1Ltr	935.00
P0420-N10L	Medium 199 w/ Earle's Salt w/ L-Glutamine w/o Sodium Bicarbonate	10 Ltr	6100.00
P0420-N50L	Medium 199 w/ Earle's Salt w/ L-Glutamine w/o Sodium Bicarbonate	50Ltr	27500.00
P0425-N1L	Medium 199 w/ Earle's Salt w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	1Ltr	1075.00
P0425-N10L	Medium 199 w/ Earle's Salt w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	10 Ltr	5900.00
P0425-N50L	Medium 199 w/ Earle's Salt w/ L-Glutamine w/o Sodium Bicarbonate w/ 25 mM Hepes	50 Ltr	26500.00

MINIMUM ESSENTIAL MEDIA (MEM)- MEM w/Earle's Salts

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0450-N1L	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	1 Ltr	690.00
P0450-N10L	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	10 Ltr	4600.00
P0450-N50L	MEM w/ Earle's Salts w/ L-Glutamine w/ NEAA w/o Sodium Bicarbonate	50 Ltr	20700.00
P0451-N1L	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	1 Ltr	550.00
P0451-N10L	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	10 Ltr	3650.00
P0451-N50L	MEM w/ Earle's Salts w/ L-Glutamine w/o NEAA w/o Sodium Bicarbonate	50 Ltr	16500.00
P0452-N1L	MEM w/ Earle's Salts w/L-Glutamine w/o Sodium Bicarbonate w 25 mM Hepes	1 Ltr	On request
P0452-N10L	MEM w/ Earle's Salts w/L-Glutamine w/o Sodium Bicarbonate w 25 mM Hepes	10 Ltr	On request
P0452-N50L	MEM w/ Earle's Salts w/L-Glutamine w/o Sodium Bicarbonate w 25 mM Hepes	50 Ltr	On request

MEM w/Hanks' Salts

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0515-N1L	MEM w/ Hanks' Salts w/L-Glutamine w/ NEAA w/o Sodium Bicarbonate	1 Ltr	525.00
P0515-N10L	MEM w/ Hanks' Salts w/ L-Glutamine w/NEAA w/o sodium Bicarbonate	10 Ltr	3350.00
P0515-N50L	MEM w/ Hanks' Salts w/L-Glutamine w/ NEAA w/o Sodium Bicarbonate	50 Ltr	15100.00

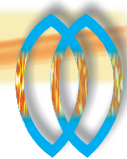
MEM Alpha Modification

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0440-N1L	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	1 Ltr	690.00
P0440-N10L	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	10 Ltr	4600.00
P0440-N50L	MEM Alpha Modification w/ Earle's Salts w/ L-Glutamine w/o Sodium Bicarbonate	50 Ltr	20700.00

RPMI 1640 MEDIUM

Cat #	Description	Vol.	Price/Each (Rs.)
P0860-N1L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	1 Ltr	440.00
P0860-N10L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	10 Ltr	2350.00
P0860-N50L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate	50 Ltr	10575.00
P0870-N1L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	1 Ltr	660.00
P0870-N10L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	10 Ltr	3250.00
P0870-N50L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate	50 Ltr	14650.00
P0880-N1L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	1 Ltr	450.00
P0880-N10L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	10 Ltr	2250.00
P0880-N50L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	50 Ltr	10125.00
P0871-N1L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	1 Ltr	660.00
P0871-N10L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	10 Ltr	on request
P0871-N50L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/o Phenol Red	50 Ltr	on request
P0875-N1L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	1Ltr	690.00
P0875-N10L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	10 Ltr	3850.00
P0875-N50L	RPMI 1640 w/o L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes	50 Ltr	17500.00
P0876-N1L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes w/o Phenol Red	1 Ltr	880.00
P0876-N10L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes w/o Phenol Red	10 Ltr	4375.00
P0876-N50L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/ 25mM Hepes w/o Phenol Red	50 Ltr	19500.00
P0883-N1L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	1 Ltr	690.00
P0883-N10L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	10 Ltr	3850.00
P0883-N50L	RPMI 1640 w/ L-Glutamine w/o Sodium Bicarbonate w/o Glucose	50 Ltr	17500.00

Salt Solutions & Salts / Buffers



The irrigating buffers and salt solutions are sterile physiological balanced solutions intended for use in the maintenance of mammalian cells where a chemically defined, balanced salt solution provides an environment that will maintain the structural and physiological integrity of cells in vitro. They were used for the first steps for preparing parts of organs and during the dissociation process or for isolation of cell suspensions. Further applications are the intermediate steps for cultivation of cells like washing, centrifugation, suspending and counting and also many analytical methods or biochemical treatments. Principally these solutions should be used to keep the cells only for minutes or maximal some hours into suspension. These buffers and solutions are no cell culture media.

They are composed of a Phosphate buffer system, sodium chloride to adjust the osmolarity and perhaps sugar for a short time nutrition and stabilisation of morphology. For applications where Ca^{2+} and Mg^{2+} ions interfere with enzyme activity e.g. Trypsin, use the modified buffers w/o Calcium w/o Magnesium.

DULBECCO'S PHOSPHATE BUFFERED SALINE (DPBS)

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0615-1000	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	1000 ml	1800.00
L0615-500	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	500 ml	1000.00
L0615-100	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	100 ml	625.00
L0625-1000	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	1000 ml	2000.00
L0625-500	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium	500 ml	1150.00
X0515-500	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	500 ml	1400.00
X0515-100	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium	100 ml	575.00
X0520-500	Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/o magnesium	500 ml	1900.00

EARLE'S BALANCED SALT SOLUTIONS (EBSS)

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0601-500	Earle's Balanced Salts Solution w/o Calcium w/o Magnesium	500 ml	1150.00
L0602-500	Earle's Balanced Salts Solution w/ Calcium w/ Magnesium	500 ml	1900.00
X0112-500	Earle's Balanced Salts 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate	500 ml	1850.00
X0113-500	Earle's Balanced Salts 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate	500 ml	2450.00

HANKS' BALANCED SALT SOLUTIONS (HBSS)

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0605-500	HBSS w/o Ca w/o Mg w/o Sodium Bicarbonate w/o Phenol Red	500 ml	1500.00
L0606-500	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red	500 ml	1150.00
L0607-500	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	500 ml	1300.00
L0608-500	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	500 ml	1800.00
L0611-500	HBSS w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red	500 ml	1300.00
L0612-500	HBSS w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red	500 ml	1400.00
X0507-500	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	500 ml	1800.00
X0509-500	HBSS 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red	500 ml	1800.00
X0510-500	HBSS 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red	500 ml	1800.00
X0513-500	HBSS 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red	500 ml	1800.00

HEPES

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0180-100	HEPES Buffer 1 M	100 ml	2400.00
L0180-500	HEPES Buffer 1 M	500 ml	9800.00

OTHER SALT SOLUTIONS & SALTS

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0640-500	Sodium Chloride Salt Solution 0.85%	500 ml	1450.00
L0642-100	Sodium Pyruvate 100 mM	100 ml	1175.00
L0642-500	Sodium Pyruvate 100 mM	500 ml	2350.00
L0643-100	Potassium Chloride 0.075 M	100 ml	575.00
L0643-500	Potassium Chloride 0.075 M	500 ml	1700.00
L0630-100	Versene	100 ml	1800.00
L0680-100	Sodium Bicarbonate 7.5%	100 ml	775.00

Antibiotics

The use of antibiotics is a helpful tool in the cell culture field or where fluids have to be conserved and prevented from bacterial contamination. Most of the antibiotics suppress the growth of micro-organisms by blocking an anabolic pathway.

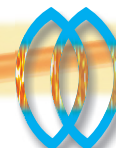
NANOMYCOPULITINE actively kills the bacteria in all three stages of development without interfering with the eukaryotic metabolism.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0008-020	Kanamycin Solution 100X	20 ml	4800.00
L0008-100	Kanamycin Solution 100X	100 ml	On request
L0009-050	Amphotericin B	50 ml	4500.00
L0009-100	Amphotericin B	100 ml	5400.00
L0010-020	Antibiotic-Antimycotic 100X	20 ml	2100.00
L0010-100	Antibiotic-Antimycotic 100X	100 ml	6000.00
L0011-010	Gentamicin Sulfate 10 mg/ml	10 ml	1550.00
L0011-100	Gentamicin Sulfate 10 mg/ml	100 ml	7500.00
L0012-010	Gentamicin Sulfate 50 mg/ml	10 ml	5800.00
L0012-100	Gentamicin Sulfate 50 mg/ml	100 ml	52500.00

Penicillin-Streptomycin

Cat #	Description	Vol.	Price/Each (Rs.)
L0014-100	Glutamine-Penicillin-Streptomycin 100x	100 ml	5725.00
L0015-010	G-418 (Geneticin) Solution	10 ml	9500.00
L0015-100	G-418 (Geneticin) Solution	100 ml	54250.00
L0018-020	Penicillin-Streptomycin	20 ml	On request
L0018-100	Penicillin-Streptomycin	100 ml	1595.00
L0022-020	Penicillin-Streptomycin Solution 100X	20 ml	550.00
L0022-100	Penicillin-Streptomycin Solution 100X	100 ml	1375.00
L-X16-010	Nanomycopulitine Concentrat 20 x	10 ml	6850.00
L-X16-100	Nanomycopulitine Concentrat 20 x	100 ml	24950.00

Salt Solutions & Salts / Buffers (Powdered)



DULBECCO'S PHOSPHATE BUFFERED SALINE (DPBS)

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0750-N1L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	1Ltr	385.00
P0750-N10L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	10 Ltr	2700.00
P0750-N50L	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium	50 Ltr	8800.00

HANKS' BALANCED SALT SOLUTIONS (HBSS)

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0153-N1L	HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	1 Ltr	440.00
P0153-N10L	HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	10 Ltr	2550.00
P0153-N50L	HBSS w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red	50 Ltr	11500.00
P0154-N1L	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/o Phenol Red	1 Ltr	440.00
P0154-N10L	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/o Phenol Red	10 Ltr	2550.00
P0154-N50L	HBSS w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/o Phenol Red	50 Ltr	11500.00

HEPES

Cat #	Description	Vol.	Price/Bottle (Rs.)
P5455-100GR	HEPES, cell culture tested	100 g	5200.00
P5455-500GR	HEPES, cell culture tested	500 g	17500.00
P5455-KG	HEPES, cell culture tested	1000 g	31500.00

OTHER SALT SOLUTIONS & SALTS

Cat #	Description	Vol.	Price/Bottle (Rs.)
P2065-N1L	Sodium Chloride (for dilution 8.5 g/l)	1 Ltr	on request
P2065-N5L	Sodium Chloride (for dilution 8.5 g/l)	5 Ltr	715.00
P2065-N10L	Sodium Chloride (for dilution 8.5 g/l)	10 Ltr	on request
P2064-N1L	Sodium Chloride (for dilution 9 g/l)	1 Ltr	on request
P2064-N5L	Sodium Chloride (for dilution 9 g/l)	5 Ltr	715.00
P2064-N10L	Sodium Chloride (for dilution 9 g/l)	10 Ltr	on request
P2035-100GR	Potassium Chloride	100 g	on request
P2035-500GR	Potassium Chloride	500 g	1400.00
P2035-1000GR	Potassium Chloride	1000 g	on request
P2060-100GR	Sodium Bicarbonate, Cell culture tested	100 g	on request
P2060-500GR	Sodium Bicarbonate, Cell culture tested	500 g	1350.00
P2060-1000GR	Sodium Bicarbonate, Cell culture tested	1000 g	on request

Penicillin-Streptomycin

Cat #	Description	Vol.	Price/Each (Rs.)
P4020-1GR	Gentamicin Sulfate	1 g	1450.00
P4020-5GR	Gentamicin Sulfate	5 g	5950.00
P0017-1GR	G-418 Sulfate	1 g	10650.00
P0017-5GR	G-418 Sulfate	5 g	47950.00
P0018-1MU	Penicillin G Sodium Salt-1 Million Units	1 million units	1375.00

Cell Culture Reagents



TRYPSIN

Trypsin is a porcine pancreas-derived enzyme that is commonly used for the dissociation and disaggregation of anchorage-dependent mammalian cells and tissues. The concentration of trypsin necessary to dislodge the cells from their substrate depends on the sensitivity of the cells.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0909-100	Trypsin 0.25% in PBS w/o Calcium w/o Magnesium w/ Phenol Red	100 ml	1600.00
L0910-100	Trypsin 0.25% in PBS w/o Calcium w/o Magnesium w/o Phenol Red	100 ml	1450.00
X0915-100	Trypsin 2.5% in PBS w/o Calcium w/o Magnesium w/o Phenol Red	100 ml	1550.00
L0931-100	Trypsin 0.25% EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	100 ml	1400.00

TRYP SIN

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0931-100	Trypsin 0.25% EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	100 ml	1400.00
L0931-500	Trypsin 0.25% EDTA in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	500 ml	4850.00
L0932-100	Trypsin 0.25% EDTA 0.02% in HBSS w/o Calcium w/o Magnesium w/ Phenol Red	100 ml	1450.00
X0920-100	Trypsin 2.5% in HBSS w/o Calcium w/o Magnesium w/o Phenol Red	100 ml	1550.00
L0930-100	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	100 ml	1400.00
L0930-500	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/ Phenol Red	500 ml	4650.00
L0940-100	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	100 ml	1400.00
L0940-500	Trypsin-EDTA 1X in PBS w/o Calcium w/o Magnesium w/o Phenol Red	500 ml	4650.00
X0930-100	Trypsin-EDTA 10X	100 ml	1450.00

MEM 50X/100X and BME 100X CONCENTRATE AMINO ACIDS, VITAMINS, NEAA

The solutions of amino acids, vitamins or non essential amino acids concentrated can be added to your basal medium (the final concentration of the MEM or BME must be 1X) to enrich it and then this medium is used as a classical MEM or BME.

Cat #	Description	Vol.	Price/Bottle (Rs.)
X0552-100	BME Amino Acids 100X w/o L-Glutamine	100 ml	2275.00
X0554-100	MEM Amino Acids 50X w/o L-Glutamine	100 ml	1700.00
X0556-100	MEM Vitamins 100X w/o L-Glutamine	100 ml	1700.00
X0557-100	MEM non Essential Amino Acids 100X w/o L-Glutamine	100 ml	1500.00

LYMPHOSEP

Lymphosep is designed for the simple, rapid isolation of lymphocytes from whole blood that has been diluted and treated with anti-coagulant or defibrinating agent.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0560-100	Lymphosep, Lymphocyte Separation Media	100 ml	2550.00
L0560-500	Lymphosep, Lymphocyte Separation Media	500 ml	9500.00

GLUTAMINE

L-Glutamine is an essential amino acid required by virtually all mammalian and insect cells grown in culture. It is a crucial component of many cell culture media and serves as a major energy source for cells in culture. L-Glutamine is very stable as a dry powder and as a frozen solution.

However, in liquid media or stock solutions, L-Glutamine can degrade relatively rapidly. L-Glutamine is also labile in cell culture solution than other amino acids.

Dipeptide derivatives of L-Glutamine (Stable Glutamine) prevent the intramolecular cyclization reaction associated with solutions of L-Glutamine. These derivatives are therefore stable in solution and allow the formulation of cell culture media containing L-Glutamine that may be stored at 4°C for extended periods. Solutions containing these derivatives can be even autoclaved without appreciable degradation of the product. (30 minutes at 121°C results in <5% loss of the product).

The dipeptide derivatives are metabolized within the cells to yield L-Glutamine plus the second amino acid. This results in more consistent delivery of L-Glutamine to your cells and avoid toxic build-up of ammonia in your cell cultures. This feature can be especially important for ammonia-sensitive cell lines.

Cat #	Description	Vol.	Price/Bottle (Rs.)
X0550-100	L-Glutamine 100x, 200mM	100 ml	895.00
X0551-100	Glutamine stable 100x, 200mM	100 ml	1650.00

CELL CULTURE WATER

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0970-100	Cell Culture Water Pyrogen free	100 ml	625.00
L0970-500	Cell Culture Water Pyrogen free	500 ml	1150.00
L0970-1000	Cell Culture Water Pyrogen free	1000 ml	2400.00

COLCEMID

Colcemid arrested the division of cells in mitosis. It prevents the formation of the spindle apparatus responsible for cell division, thereby permitting an accumulation of metaphases.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0040-010	Colcemid 10 µg/ml in PBS (Demecolcin)	10 ml	1600.00
L0040-020	Colcemid 10 µg/ml in PBS (Demecolcin)	20 ml	2900.00
L0040-050	Colcemid 10 µg/ml in PBS (Demecolcin)	50 ml	5500.00

PHENOL RED

Phenol red is used as a pH indicator. The sodium salt of phenol red is used widely in culture media to identify changes from neutral to acidic pH values. A solution of phenol red will have a yellow color at a pH of 6.4 or below and a red color at a pH of 8.2 and above.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0541-100	Phenol Red Solution 0.5%	100 ml	On request

TRYPAN BLUE

Trypan Blue is a stain used to distinguish viable from non viable cells.

Cat #	Description	Vol.	Price/Bottle (Rs.)
L0990-100	Trypan Blue 0.5% Solution (non Sterile)	100 ml	1275.00

Cell Culture Reagents Powdered



TRYPSIN

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0940-10GR	Trypsin-EDTA 1X Lyophilised w/ Sodium Chloride	10 g	on request
P5957-100GR	Trypsin-1:250 powder (porcine)	100 g	18250.00

GLUTAMINE

Cat #	Description	Vol.	Price/Bottle (Rs.)
P1012-100GR	L-Glutamine	100 g	3100.00
P1012-KG	L-Glutamine	1Kg	25500.00
P1031-100GR	L-Alanyl-L-Glutamine,stable Glutamine	100 g	39500.00

PHENOL RED

Cat #	Description	Vol.	Price/Bottle (Rs.)
P5648-10GR	Phenol Red Solution Salt	10 g	2500.00

TRYPAN BLUE

Cat #	Description	Vol.	Price/Bottle (Rs.)
P0935-1GR	Trypan Blue	1 g	1650.00

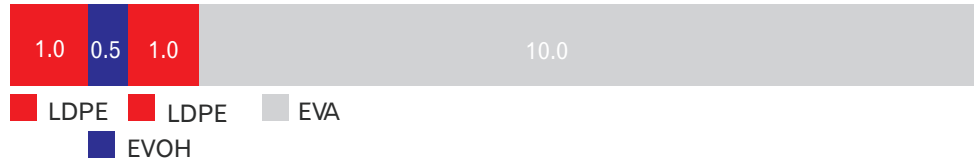
Advanced Scientifics



pharmaceutical / biotech EVA STANDARDS

Advanced Scientifics' Ethyl Vinyl Acetate Single Use bag systems are produced utilizing a single film. The film is a 4 layer 12.5 mil coextrusion film which provides barrier and durability. All Advanced Scientifics ethyl vinyl acetate film products are compliant with the following: ISO 13485:2003 certified, Class VI cGMP manufacturing regulations, Class 7 certified clean room, and FDA registered. Advanced Scientifics ethyl vinyl acetate film meets United States Pharmacopoeia Class VI Plastics Guidelines.

PL-01028



Biocompatibility

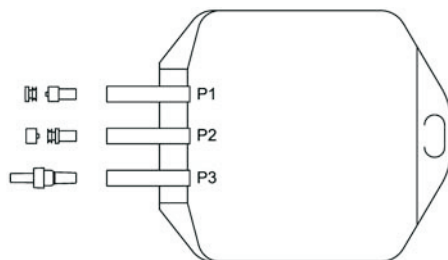
USP Acute Systemic Injection Test	Pass	USP <88>
USP Intracutaneous Injection Test	Pass	USP <88>
USP Intramuscular Implant Test	Pass	USP <88>
USP MEM Elution Method	Non-Cytotoxic	USP <87>
Hemolysis	Non-Hemolytic	ISO 10993-4

Extractables

	TOC After 90 Days (ppm)	pH Shift After 90 Days
Purified Water (pH=7)	< 10	-2.26
Acidic Water (pH <2)	< 10	-0.05
Basic Water (pH >10)	< 10	+0.5

Physical Data

Carbon Dioxide Transmission Rate (cc/100in ² / 24 hrs)	0.58	Mocon Test Method
Water Vapor Transmission Rate (g/100in ² / 24 hrs)	0.11	ASTM F-1249
Oxygen Transmission Rate (cc/100in ² / 24 hrs)	0.28	ASTM D-3985
Ultimate Tensile	3100 psi	ASTM D-638
Ultimate Elongation	> 650%	ASTM D-638
100% Modulus	1000 psi	ASTM D-638
Tear Strength	550 lbf/in.	ASTM D-1004
Low Temperature Brittleness	> -75° F	ASTM D-1290
Puncture Resistance	22.4 Lbf.	FTMS 101 B

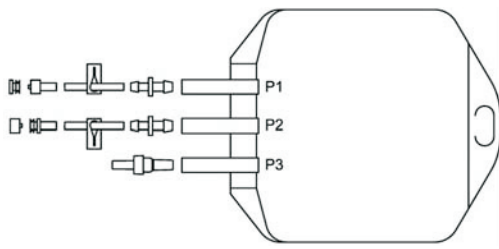


Port 1: LL Male + Cap

Port 2: LL Female + Cap

Port 3: Injection Site

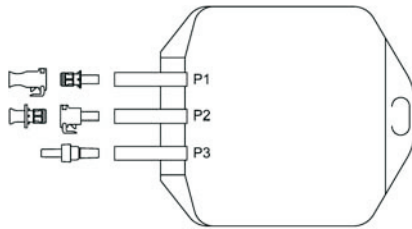
	Catalog #	Price (Rs.)
SS00001-I	100 ml EVA Bag	1950.00
SS00002-I	250 ml EVA Bag	2050.00
SS00003-I	500 ml EVA Bag	2100.00
SS00004-I	1 L EVA Bag	2350.00
SS00005-I	2 L EVA Bag	2450.00



Port 1: 1/8"X1/4" Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp

Port 2: 1/8"X1/4" Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp

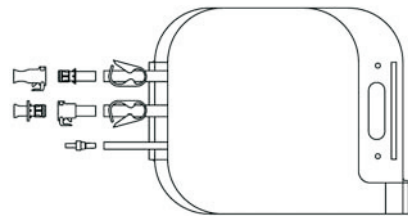
Port 3: Injection Site



Port 1: MPC Male + Cap

Port 2: MPC Female + Cap

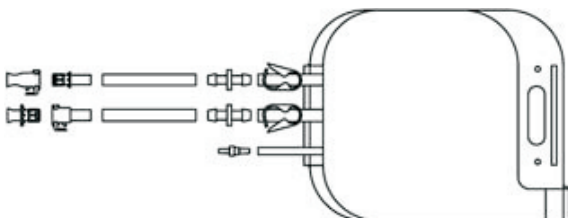
Port 3: Injection Site



Port 1: MPC Male + Cap, Pinch Clamp

Port 2: MPC Female + Cap, Pinch Clamp

Port 3: Injection Site, Pinch Clamp



Port 1: 3/8"ID x 5/8"OD Clear C-Flex 374 (12")
MPC Male + Cap, Pinch Clamp

Port 2: 3/8"ID x 5/8"OD Clear C-Flex 374 (12")
MPC Female + Cap, Pinch Clamp

Port 3: Injection Site, Pinch Clamp

Catalog

Price (Rs.)

SS00006-I	100 ml	EVA Bag	3650.00
SS00007-I	250 ml	EVA Bag	3750.00
SS00008-I	500 ml	EVA Bag	3800.00
SS00009-I	1 L	EVA Bag	4050.00
SS00010-I	2 L	EVA Bag	4150.00

Catalog

Price (Rs.)

SS00011-I	100 ml	EVA Bag	2950.00
SS00012-I	250 ml	EVA Bag	3050.00
SS00013-I	500 ml	EVA Bag	3100.00
SS00014-I	1 L	EVA Bag	3350.00
SS00015-I	2 L	EVA Bag	3450.00

Catalog

Price (Rs.)

SS00016-I	5 L	EVA Bag	4200.00
SS00017-I	10 L	EVA Bag	4500.00
SS00018-I	20 L	EVA Bag	4800.00
SS00019-I	50 L	EVA Bag	5700.00

Catalog

Price (Rs.)

SS00020-I	5 L	EVA Bag	6100.00
SS00021-I	10 L	EVA Bag	6400.00
SS00022-I	20 L	EVA Bag	6700.00
SS00023-I	50 L	EVA Bag	7500.00

pharmaceutical / biotech

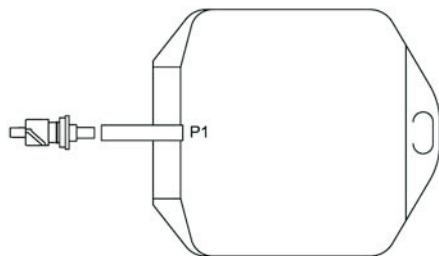
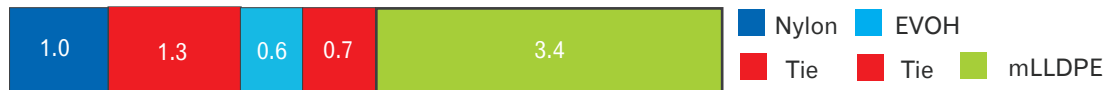
AUTOMATIC ASEPTIC FILLING

The automatic aseptic filling system utilizes a fixture and cap assembly developed and manufactured by Advanced Scientifics, and fully controls the filling interface with no user interaction required with the fill port. What is left after completion is a tamper evident dispensing port. This results in a cleaner, more efficient, and cost effective method of filling.



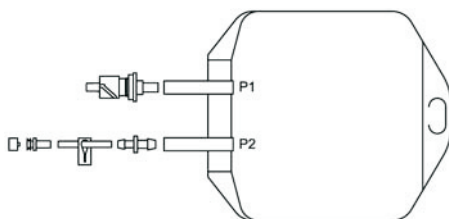
	Catalog #	Price (Rs.)	
	4MP600	Automatic Filling Fixture	On request
	B100787-I	1 Liter Bag (3000 count)	On request
	N/A	Watson Marlow 620Di Peristaltic Pump	On request
	6025	Nozzle Replacement Assy	On request
	6065	Cap Puller-Placement Assay	On request
	C05	Microswitch	On request
	6070	Nozzle Kit	On request
	6075	Small Repair Comp. Kit	On request

PL-01077



Port 1: Co-Ex Tube
ASI Filling Connector

	Catalog #	Price (Rs.)
B100783-I	50 ml PE Bag	700.00
B100784-I	100 ml PE Bag	700.00
B100785-I	250 ml PE Bag	750.00
B100786-I	500 ml PE Bag	800.00
B100787-I	1 L PE Bag	800.00



Port 1: Co-Ex Tube
ASI Filling Connector

Port 2: 1/8"ID x 1/4"OD Clear C-Flex 374 (16")
LL Female + Cap, Slide Clamp

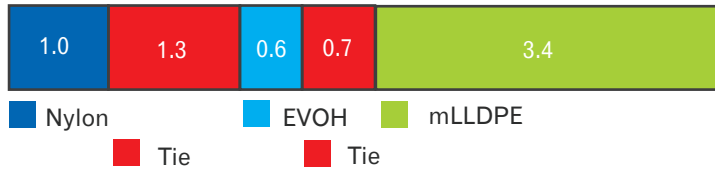
	Catalog #	Price (Rs.)
B100788-I	50 ml PE Bag	1950.00
B100789-I	100 ml PE Bag	2050.00
B100790-I	250 ml PE Bag	2050.00
B100791-I	500 ml PE Bag	2050.00
B100792-I	1 L PE Bag	2100.00

pharmaceutical / biotech PE STANDARDS



Advanced Scientifics' Polyethylene Single Use bag systems are produced utilizing two films. The fluid contact film is a 5.0 mil Polyethylene. The outer is a 5 layer 7 mil conextrusion film which provides barrier and durability. All Advanced Scientifics polyethylene film products are compliant with the following : ISO 13485:2003 certified, Class VI, cGMP manufacturing regulations, Class 7 certified clean room, and FDA registered. Advanced Scientifics polyethylene film meets United States Pharmacopoeia Class VI Plastic Guidelines.

PL-01077



PL-01026



Biocompatibility

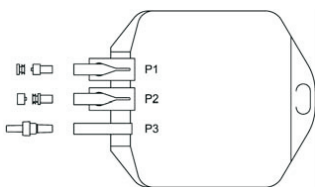
USP Acute Systemic Injection Test	Pass	USP <88>
USP Intracutaneous Injection Test	Pass	USP <88>
USP Intramuscular Implantation Test	Pass	USP <88>
USP MEM Elution Method	Non-Cytotoxic	USP <87>
Physiochemical Test for Plastics	Pass	USP <661>

Extractables

	TOC After 90 Days (ppm)	pH Shift After 90 Days
Purified Water (pH=7)	< 2	-0.79
Acidic Water (pH <2)	< 3	+0.01
Basic Water (pH >10)	< 4	+0.87

Physical Data

Water Vapor Transmission Rate (g/100in ² /24hrs)	0.017	ASTM F-1249		
Carbon Dioxide Transmission Rate (cc/100in ² /24hrs)	0.129	ASTM F-2476		
Oxygen Transmission Rate (cc/100in ² /24hrs)	0.023	ASTM F-1927		
	Average Force	Average MOE	Average Elongation	
Tensile	32.73 lbs	25110 psi	1080 %	ASTM D 882-02
	Min Force	Average Force	Max Force	
Tear Resistance	6.77 lbs	7.21 lbs	7.74 lbs	ASTM D1004-07
Puncture Resistance	16.42 lbs	18.61 lbs	19.51 lbs	FTMS 101C



Port 1: EVA tube
LL Male + Cap, Slide Clamp

Port 2: EVA Tube
LL Female + Cap, Slide Clamp

Port 3: EVA Tube
Injection Site

Catalog

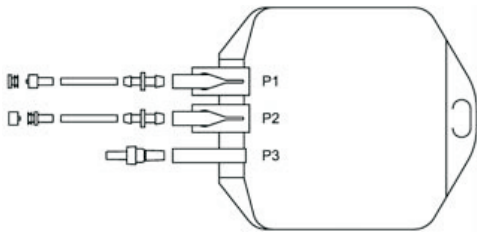
Price (Rs.)

SS00024-I	100ml	PE Bag	2600.00
SS00025-I	250ml	PE Bag	2600.00
SS00026-I	500ml	PE Bag	2650.00
SS00027-I	1L	PE Bag	2700.00
SS00028-I	2L	PE Bag	3500.00

Port 1: Boat w/ 1/4"ID x 3/8"OD Clear C-Flex 374 (2")
LL Male + Cap, Slide Clamp

Port 2: Boat w/ 1/4"ID x 3/8"OD Clear C-Flex 374 (2")
LL Female + Cap, Slide Clamp

Port 3: Injection Site

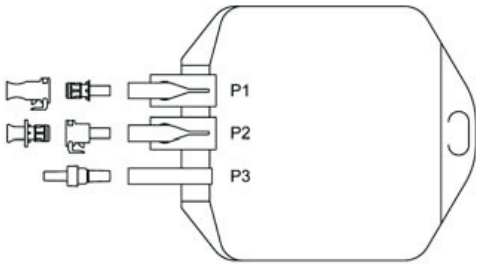


- Port 1: 1/8"ID x 1/4"OD Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp
- Port 2: 1/8"ID x 1/4"OD Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp
- Port 3: EVA Tube
Injection Site

	Catalog #		Price (Rs.)
SS00029-I	100ml	PE Bag	4000.00
SS00030-I	250ml	PE Bag	4000.00
SS00031-I	500ml	PE Bag	4050.00
SS00032-I	1L	PE Bag	4050.00

- Port 1: Boat w/ 1/8"ID x 1/4"OD Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp
- Port 2: Boat w/ 1/8"ID x 1/4"OD Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp
- Port 3: Injection Site

SS00033-I	2L	PE Bag	4200.00
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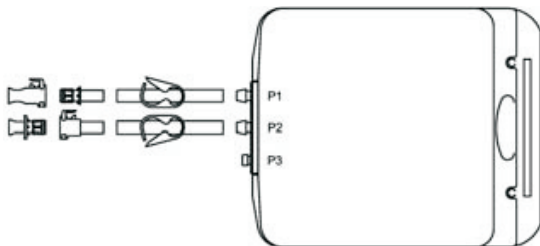


- Port 1: EVA Tube
MPC Male + Cap, Slide Clamp
- Port 2: EVA Tube
MPC Female + Cap, Slide Clamp
- Port 3: EVA Tube
Injection Site

	Catalog #		Price (Rs.)
SS00034-I	100ml	PE Bag	3650.00
SS00035-I	250ml	PE Bag	3650.00
SS00036-I	500ml	PE Bag	3700.00
SS00037-I	1L	PE Bag	3700.00

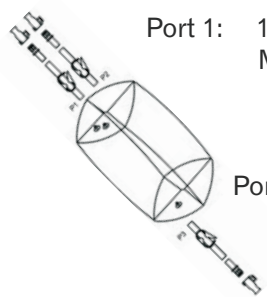
- Port 1: Boat w/ 1/4"ID x 3/8"OD Clear C-Flex 374 (2")
MPC Male + Cap, Slide Clamp
- Port 2: Boat w/ 1/4"ID x 3/8"OD Clear C-Flex 374 (2")
MPC Female + Cap, Slide Clamp
- Port 3: Injection Site

SS00038-I	2L	PE Bag	4750.00
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- Port 1: 3/8"ID x 5/8"OD Clear C-Flex 374 (12")
MPC Male + Cap, Pinch Clamp
- Port 2: 3/8"ID x 5/8"OD Clear C-Flex 374 (12")
MPC Female + Cap, Pinch Clamp
- Port 3: Injection Site

	Catalog #		Price (Rs.)
SS00039-I	5L	PE Bag	5850.00
SS00040-I	10L	PE Bag	5900.00
SS00041-I	20L	PE Bag	6100.00



Port 1: 1/2"ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

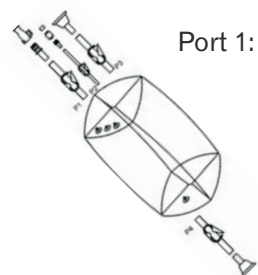
Port 2: 1/2"ID x 3/4"OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

Port 3: 1/2"ID x 3/4"OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

Catalog #

Price (Rs.)

SS00046-I	50 L	PE Bag	20000.00
SS00047-I	100 L	PE Bag	21700.00
SS00048-I	200 L	PE Bag	23400.00
SS00049-I	500 L	PE Bag	24700.00



Port 1: 1/2"ID x 3/4"OD Clear C-Flex 374 (60")
MPX Male + Cap, Pinch Clamp

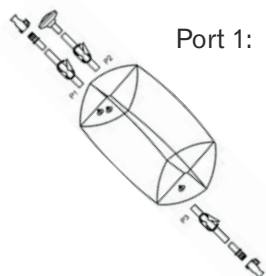
Port 2: 1/8"ID x 1/4"OD Clear C-Flex 374 (40")
Female Luer + Swabable Valve + Cap, Pinch Clamp

Port 4: 1/2"ID x 3-1/2"ID x 3/4"OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp

Catalog #

Price (Rs.)

SS00050-I	50 L	PE Bag	27150.00
SS00051-I	100 L	PE Bag	28900.00
SS00052-I	200 L	PE Bag	30600.00
SS00053-I	500 L	PE Bag	32300.00



Port 1: 1/2"ID x 3/4"OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

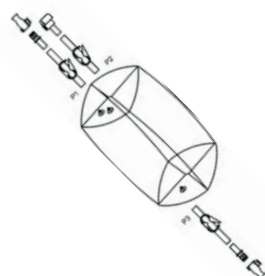
Port 2: 1/2"ID x 3/4"OD Silicone Tubing (36")
ReadyMate DAC W/ 1/2" Barb, Pinch Clamp

Port 3: 1/2"ID x 3/4"OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

Catalog #

Price (Rs.)

SS00054-I	50 L	PE Bag	25450.00
SS00055-I	100 L	PE Bag	27200.00
SS00056-I	200 L	PE Bag	28900.00
SS00057-I	500 L	PE Bag	30600.00



Port 1: 1/2"ID x 3/4"OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

Port 2: 1/2"ID x 3/4"OD Silicone Tubing (36")
Female Kleenpak Connector W/ 1/2" Barb, Pinch Clamp

Port 3: 1/2"ID x 3/4"OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

Catalog #

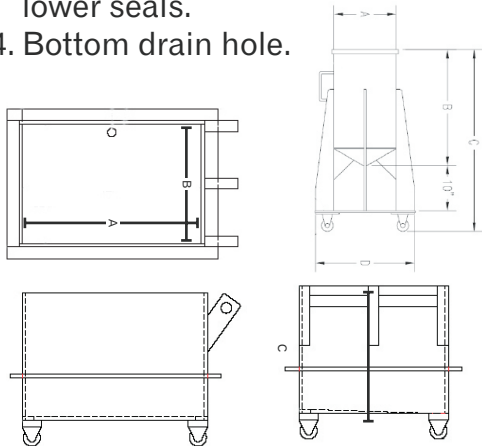
Price (Rs.)

SS00058-I	50 L	PE Bag	25300.00
SS00059-I	100 L	PE Bag	27050.00
SS00060-I	200 L	PE Bag	28750.00
SS00061-I	500 L	PE Bag	30500.00

pharmaceutical / biotech PLASTIC TOTES

Features:

1. HDPE fabricated stand flared leg design with welded support gussets.
2. 3/4" thick HDPE heavy duty base plate for accessory mounting and additional stability.
3. (4) 4" dia. rubber/SS Pharmaceutical grade casters, 2-fixed, 2-locking level with upper and lower seals.
4. Bottom drain hole.



Catalog #		Price (Rs.)				
Tank Size	A	B	C	D		
TK-0050	50 L	18"	23"	38"	20.5"	On request
TK-0100	100 L	18"	35"	50"	20.5"	On request
TK-0500	200 L	22"	44"	60"	23"	On request
TK-0500	500 L		29"	29"		On request

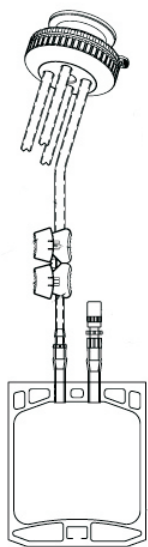
THREE60



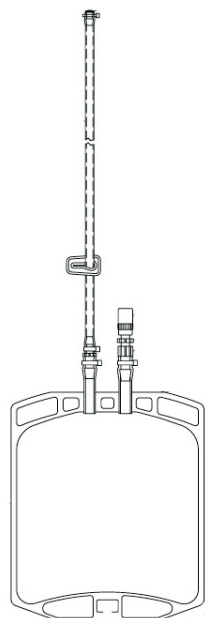
Simple and Secure

Three60 is a completely sanitary, disposable method of removing a sample from a closed system. There are no parts which must be disassembled, cleaned, and reassembled. The entire set can be applied to your fluid holding vessel or transfer line, used and discarded.

ASI also offers a complete line of small vessel sampling bags to compliment this procedure. As well, te patented "Pinch and Cut" separation device negates the need for an expensive tube sealing apparatus.



Sample System



Small Vessel

Catalog #			Price (Rs.)
4MP0034	50ml	PE Bag	19000.00
4MP0035	100ml	PE Bag	19000.00
4MP0036	250ml	PE Bag	19000.00
4MP0037	500ml	PE Bag	19000.00
4MP0038	1 L	PE Bag	19000.00
4MP0039	2 L	PE Bag	19000.00

Catalog #			Price (Rs.)
B100563-I	50 ml	PE Bag	2100.00
B100564-I	100 ml	PE Bag	2150.00
B100565-I	250 ml	PE Bag	2150.00
B100566-I	500 ml	PE Bag	2200.00
B100567-I	1000 ml	PE Bag	2250.00

pharmaceutical / biotech TANK LINERS

Tank Liners are available to improve your process for open tank applications. The use of tank liners eliminates the need for washing, cleaning and validation concerns associated to rigid reusable tanks. The liners are supplied single package and irradiation sterilized.

- Eliminates the need for cleaning
- Eliminates the need to validate cleaning
- Reduce labor cost
- Extend the life of reusable tank, and the need for dedicated equipment.



Pillow Bags (2-Dimensional)
Tank Liners

Catalog

Price (Rs.)

Catalog #	Capacity	Dimensions	Price (Rs.)
B100048-I	50 Liter	Dia. 13" x 27"	1950.00
B100038-I	130 Liter	Dia. 18" x 33"	2150.00
B100037-I	200 Liter	Dia. 22.5" x 34"	2200.00
B100049-I	340 Liter	Dia. 24" x 48"	2450.00
B100050-I	400 Liter	Dia. 28" x 42"	2650.00
B100051-I	560 Liter	Dia. 30" x 48"	3400.00
B100052-I	790 Liter	Dia. 38" x 48"	3900.00
B100053-I	1090 Liter	Dia. 42" x 48"	4550.00
B100054-I	1360 Liter	Dia. 48" x 48"	4400.00



Gusseted (3-Dimensional)
Tank Liners

Catalog

Price (Rs.)

Catalog #	Capacity	Dimensions	Price (Rs.)
B100364-I	50 Liter	Dia. 13.5" x 29"	4500.00
B100373-I	100 Liter	Dia. 18.5" x 33"	4750.00
B100363-I	200 Liter	Dia. 22.5" x 38"	4050.00
B101459-I	300 Liter	Dia. 24" x 48"	4800.00
B101460-I	560 Liter	Dia. 31" x 48.75"	5200.00
B101461-I	750 Liter	Dia. 33.75" x 51"	5500.00
B101462-I	1000 Liter	Dia. 42" x 48.75"	6150.00

TUBE SETS



Tubing: 1/2" ID x 3/4" OD Silicone Tubing (36")
W/ Pinch Clamp
T1: Steam-Thru II Connector
3/4" x 1-1/2" Sanitary x 1/2" Barb
T2: ReadyMate DAC W/ 1/2" Barb

Catalog

Price (Rs.)

SS00042-I 18200.00



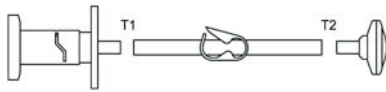
Tubing: 1/2" ID x 3/4" OD Silicone Tubing (36")
W/ Pinch Clamp
T1: Steam-Thru II Connector
3/4" x 1-1/2" Sanitary x 1/2" Barb
T2: Male Kleenpak Connector W/ 1/2" Barb

Catalog

Price (Rs.)

SS00043-I 18000.00

Tubing: 1/2"ID x 3/4"OD Silicone Tubing (36")
W/ Pinch Clamp



T1: Lynx ST Connector
1-1/2" Sanitary x 1/2" Barb

Catalog #

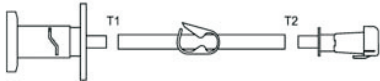
Price (Rs.)

SS00044-I

23200.00

T2: ReadyMate DAC W/ 1/2" Barb

Tubing: 1/2"ID x 3/4"OD Silicone Tubing (36")
W/ Pinch Clamp



T1: Lynx ST Connector
1-1/2" Sanitary x 1/2" Barb

Catalog #

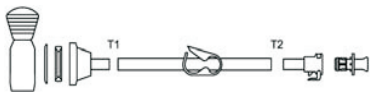
Price (Rs.)

SS00045-I

23000.00

T2: Male Kleenpak Connector W 1/2" Barb

Tubing: 1/2"ID x 3/4"OD Silicone Tubing (36")
W/ Pinch Clamp



Set End 1: 1-1/2" Sanitary x 1/2" Barb
W/ Gasket, End Cap, and Push/Pull Clip

Catalog #

Price (Rs.)

SS00062-I

5550.00

Set End 2: MPX Female + Cap

Tubing: 1/2"ID x 3/4"OD Silicone Tubing (36")
W/ Pinch Clamp



Set End 1: 1-1/2" Sanitary x 3/8" Barb
W/ Gasket, End Cap, and Push/Pull Clip

Catalog #

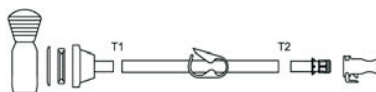
Price (Rs.)

SS00063-I

5000.00

Set End 2: MPX Female + Cap

Tubing: 3/8"ID x 5/8"OD Silicone Tubing (36")
W/ Pinch Clamp



Set End 1: 1-1/2" Sanitary x 3/8" Barb
W/ Gasket, End Cap, and Push/Pull Clip

Catalog #

Price (Rs.)

SS00064-I

4700.00

Set End 2: MPC Male + Cap

Tubing: 3/8"ID x 5/8"OD Silicone Tubing (36")
W/ Pinch Clamp



Set End 1: 3/4" Sanitary x 3/8" Barb
W/ Gasket, End Cap, and Push/Pull Clip

Catalog #

Price (Rs.)

SS00065-I

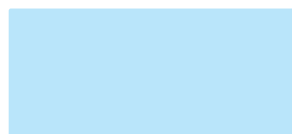
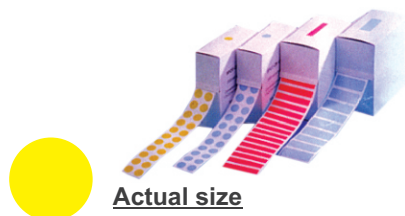
4200.00

Set End 2: MPC Male + Cap

Laboratory Accessories

LABTAGS™

Convenient and easy to use pre-cut labels manufactured from a chemically resistant polyvinyl material with a matt finish, suitable for glass & plastic labware, will withstand autoclaving, boiling and freezing at -85° C without peeling.



Cat #	Description	Pack Size	Price/ Pack (Rs.)
PG-LT-95/Y/W	SPOT-ON LABTAGS 9.5mm diameter circle labels for the caps of 1.5 & 2.0 ml tubes.	2000	4450.00
PG-LT-38/Y/W	SIDE-ON LABTAGS 38mm x 6.5mm labels for identifying petri dishes, lids microtiter plates.	1000	2975.00
PG-LT-325/B	LARGE LABTAGS 32.5mm x 12.5mm labels for 1.5 & 2.0ml large microtubes.	1000	2975.00
PG-LT-24/O	MEDIUM LABTAGS 24mm x 12mm labels for 0.2 to 0.5ml small microtubes.	1000	2975.00
PG-LT-20/G/W	SMALL LABTAGS 20mm x 6mm for 0.2ml small microtubes.	1000	2975.00

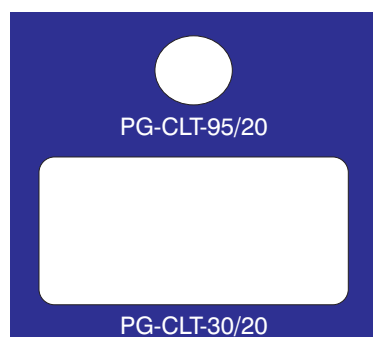
LABTAGS™ - Labels for Cryogenic storage



Cat #	Description	Pack Size	Price/ Pack (Rs.)
PG-CLT-38/W	Cryo LabTags 38 x 15 mm, Supplied in plain dispenser box containing	1 roll (1000 labels)	4350.00

CRYO LABTAGS™ - Laser Sheets

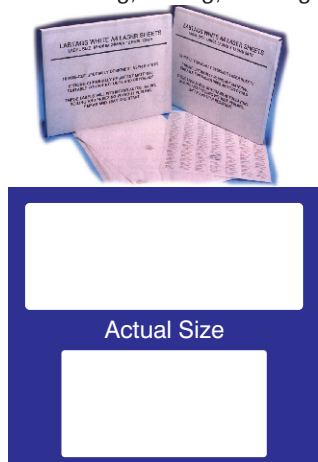
Cryogenic A4 Laser Sheets suitable for use with all plastic, glass & metal. Temperature range -196° C to + 130° C.



Cat #	Description	Pack Size	Price/ Pack (Rs.)
PG-CLT-95/20	Cryo Laser Lab Tags 9.5 mm diameter 204 labels to view per A4 sheet.	20 sheets (4080 labels)	7200.00
PG-CLT-30/20	Cryo Laser Lab Tags 30 x 20 mm diameter 55 labels to view per A4 sheet.	20 sheets (1100 labels)	7200.00

LASER LABTAGS™

Laser LabTags are available in A4 white pre-cut laser sheets in the medium and large size labels for use with most sizes of tubes and vials. This enables users to print out a large number of labels, which is time saving and convenient, will withstand autoclaving, boiling, freezing and are smear resistant, are supplied with set-up instructions for Microsoft Word software.

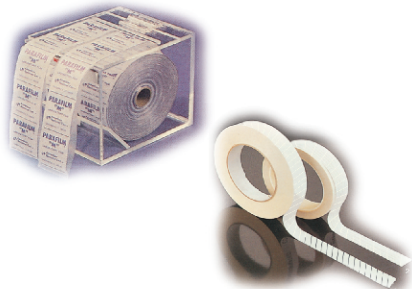


Cat #	Description	Pack Size	Price/Pack (Rs.)
PG-LT-LL/22	Large Laser Labtags 32.5mm x 12.5mm lables for 1.5 & 2.0 ml large microtubes. 90 labels to view per sheet.	22 sheets (1980 labels)	6500.00
PG-LT-LM/16	Medium Laser Labtags 24mm x 12.5mm lables for 0.2 to 0.5 ml small microtubes. 126 labels to view per sheet.	16 sheets (2016 labels)	6500.00

PARAFILM-M & STERILISATION INDICATOR TAPES

Parafilm-M is ideal for Scientific Laboratory work. It is a thermoplastic self sealing film. It holds moisture loss to a minimum and offers excellent protection for the contents of broth tubes, flasks, culture tubes, and petri dishes.

Sterilisation indicator tape : Adhesive paper tapes. Adhesive tapes indicate sterilisation, with white to black colour change.



Cat #	Description	Pack	Price/Each (Rs.)
PM996	Parafilm-M, Laboratory Film (Roll Size 4" x 125')	Each	1800.00
AT-ITP	Sterilisation indicator Tape (18mm x 50m)	Each	475.00

THERMAL PRINTING PAPER

This paper is used for Thermal Printers with gel documentation systems for taking printouts of gels.



Cat # Each	Description	Pack	Price/ (Rs.)
UPP-110N	Gel Doc Printer roll (110mm x 20m) Normal density -Type 1	Each	1400.00
UPP-110HD	Gel Doc Printer roll (110mm x 20m) high density Type -3	Each	2000.00
UPP 110GL	Gel Doc Printer roll (110mm x 20m) Gloss finish Type -5	Each	2400.00

LATEX GLOVES



Cat # Each	Description	Pack	Price/ (Rs.)
GLV-S/M/L	Latex Examination Gloves (Small/Medium/Large Size)	50 Pair/Box	525.00

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