Falcon® Product Selection Guide



Distributed by Pacific Laboratory Products Australia









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Labware

1 www.corning.com/lifesciences



Falcon® Brand Products

Known the world over for the popular "Falcon Tubes", the Falcon brand has set the standard for high-quality disposable plasticware for more than 50 years. Falcon-branded liquid handling and cell culture products are designed to advance research and are used in laboratories worldwide. Manufactured from advanced bioanalytical-grade resins and extensively tested, Falcon plasticware ensures high quality and consistent, reliable results.

Committed to delivering the right product at the right time

Corning Sales and Service Representatives are specialists who have the training and knowledge to help you make the right purchasing decisions. You can be confident they'll direct you to the products that deliver the best value while meeting your research needs.

Our Sales Representatives work in close partnerships with our distributors to ensure the availability of all of our products and to keep you up-to-date on new products and technologies. They stay in touch with you and the changing requirements of your research.

Corning Technical Support Representatives have laboratory experience and an in-depth understanding of our products and their applications. Based on their experience, they provide expert assistance in selecting the products that best meet the requirements of your research protocols.

Our Customer Service Representatives provide the information you need to place and process your orders accurately and efficiently. They make sure you get the products you need, when and where you need them, whether they are through one of our authorized distributors or directly through Corning.

Whether you need to place an order or have a special request or concern, depend on Corning Sales and Service Representatives.



Our Commitment to Quality

All Falcon® products are manufactured per current Good Manufacturing Practices (cGMP) and ISO 9001 standard. The ISO certification verifies our facilities meet international quality system standards. The quality system is routinely audited by a notified body to ensure a work environment that consistently maintains the highest standards. ISO compliance gives our customers an added level of assurance that Corning is committed to superior quality and continuous product improvement.

Copies of our ISO and quality certificates can be obtained by contacting Corning Technical Support at +1.978.442.2200 or e-mail **CLSTechServ@corning.com**.

Corning facilities and the products they manufacture

Durham, North Carolina EN ISO 9001 and EN ISO 13485 certified and cGMP (21 CFR 820) compliant

- Falcon Flasks
- ▶ Falcon Vented Caps
- ▶ Falcon Serological Pipets
- ▶ Falcon Aspirating Pipets
- **▶** Falcon Specimen Containers
- ▶ Falcon Cell Strainers
- ▶ Falcon Cell Culture Inserts
- ▶ Falcon Cell Culture Dishes

- ▶ Falcon Multiwell Plates
- ▶ Falcon Assay Plates
- ▶ Falcon Bacteriological Petri Dishes
- ▶ Falcon *In Vitro* Fertilization Plasticware*
- ▶ Corning® Primaria™ Flasks
- Corning Primaria Dishes
- ▶ Corning Primaria Plates

Renosa, Mexico ISO 9001 and cGMP (21 CFR 820) Compliant

- ▶ Falcon Conical Tubes
- ▶ Falcon Round-Bottom Tubes

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

*Falcon *In Vitro* Fertilization plasticware is CE marked in compliance with the European Medical Devices Directive 93/42/EEC. Falcon IVF plasticware cleared as US Class II medical devices by the FDA per 21 CFR 884



Falcon® Cultureware

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Trust Falcon, the first name in cell culture

Falcon Cultureware was the first developed tissue culture-treated plasticware that enabled scientists to grow cells *in vitro*.

Falcon® Cell Culture Flasks

- Vacuum-gas plasma tissue culture treatment provides consistent cell attachment, spreading, and growth
- Description Choose standard tissue culture, Corning® Primaria™, or not tissue culture-treated polystyrene growth surfaces to meet your individual cell culture requirements
- Secure stacking provides stability from accidental tips or spills, and protection against contamination (canted neck flasks)
- Sterilized by gamma irradiation
- Nonpyrogenic tested to less than 0.1 EU/mL
- Volumetric graduations and writing patch
- Vented caps incorporate a 0.2 μm hydrophobic membrane for optimal gas exchange while protecting against contamination
- Growth area and volume are nominal



Tissue culture-friendly packaging

- Convenient reseal tab on the bag
- Innovative bag materials that will not scuff or scratch the flask's optical surface
- Double-wall bags provide increased sterility assurance
- Medical-style, peel-open bags assure that flask sterility is maintained
- ▶ Recyclable bag material (low density polyethylene)
- Knife not required for case opening



225 cm² Flasks

- Innovative shape permits access to all corners with a pipet or scraper
- Unique Locking Incubation Position prevents caps from falling off or closing while in the open position
- Plug Seal or vented cap available
- > Skirted, canted neck adds stability to neck area of flask
- Large frosted writing area
- Vertical graduations up to 400 mL
- ▶ 100 mL maximum horizontal working volume line



Low profile 150 cm² Flasks

- ▶ Low profile for efficient stacking and incubator utilization
- Unique Locking Incubation Position prevents caps from falling off or closing while in the open position
- Precision engineered cap spins on quickly
- Innovative shape permits access to all corners with a pipet or cell scraper

Falcon Cell Culture Flasks Ordering Information

Cat. No.	Surface	Neck Style	Cap Style	Qty/Pk	Qty/Cs
12.5 cm ² Flask, 25 mL					
353018	Standard TC*	Canted	Plug Seal	10	100
353107	Standard TC	Canted	Vented	10	100
25 cm ² Flask, 50 mL					
353014	Standard TC	Canted	Plug Seal	20	200
353108	Standard TC	Canted	Vented	20	100
353813	Corning® Primaria™ TC	Canted	Plug Seal	20	200
353808	Corning Primaria TC	Canted	Vented	20	100
25 cm ² Flask, 70 mL					
353082	Standard TC	Canted	Plug Seal	20	200
353109	Standard TC	Canted	Vented	20	100
353009	Non-TC	Canted	Plug Seal	20	200
75 cm ² Flask, 250 mL					
353024	Standard TC	Straight	Plug Seal	5	100
353110	Standard TC	Straight	Vented	5	100
353824	Corning Primaria TC	Straight	Plug Seal	5	100
353810	Corning Primaria TC	Straight	Vented	5	100
353135	Standard TC	Canted	Plug Seal	5	60
353136	Standard TC	Canted	Vented	5	60
353133	Non-TC	Canted	Plug Seal	5	60
150 cm ² Flask, 600 mL					
355000	Standard TC	Canted	Plug Seal	5	40
355001	Standard TC	Canted	Vented	5	40
175 cm ² Flask, 750 mL					
353028	Standard TC	Straight	Plug Seal	5	40
353112	Standard TC	Straight	Vented	5	40
Bar coded 175 cm ² Flask, 750	D mL				
Compatible with robotic cultivation	systems, e.g., The Automation Partnership's Selec	T TM			
353118	Standard TC	Straight	Vented	5	40
225 cm ² Flask, 800 mL					
353139	Standard TC	Canted	Plug Seal	5	30
353138	Standard TC	Canted	Vented	5	30

Falcon Cell Culture Multi-Flasks Ordering Information

Cat. No.	Surface	Neck Style	Cap Style	Qty/Pk	Qty/Cs
525 cm ² Multi-Flask 3-Lay	ver, up to 50 mL per layer**				
353143	Standard TC	-	Vented	2	12
875 cm ² Multi-Flask 5-Lay	ver, up to 50 mL per layer**				
353144	Standard TC	-	Vented	1	8

^{*}TC = Tissue Culture

Tips

- Use Falcon non-Tissue Culture-treated cell culture flasks for suspension cultures.
- For enhanced cell performance, Corning® BioCoat™ Flasks are available with pre-applied matrix proteins, and Corning PureCoat™ Flasks are available with synthetic coating (amine and carboxyl). For more information, visit www.corning.com/lifesciences.

www.corning.com/lifesciences

^{**} For more information on the Multi-Flasks, see page 10

Falcon® Cell Culture Multi-Flasks

- Increase productivity by enabling to grow more cells faster and easier
- ▶ 3- or 5-layer formats provide 525 cm² and 875 cm² cell growth surface area, respectively

Features

- Even distribution of media across all layers for homogeneous cell growth
- Ability to mix cells and reagents in the Falcon Multi-Flask saves time and reduces risk of contamination
- Flexible design allows to pour or aspirate/recover cells using a pipet
- ▶ Consistent surface treatment for predictable scale-up
- Lot number printed on each flask for traceability
- Manufactured in compliance to cGMP standards

Designed to fit your protocol

Falcon Multi-Flasks offer the same footprint and the same reagent volumes and cell seeding densities per unit area as 175 cm² flasks. With the same proven surface treatment as all other Falcon flasks, it simplifies scale up.

Improves cell culture productivity

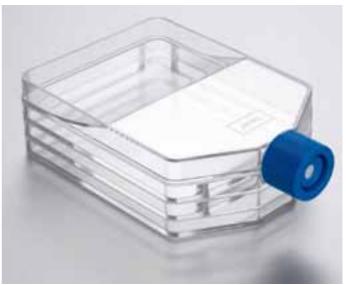
Falcon Multi-Flasks deliver a thoughtful design that simplifies cell culture workflow by eliminating multiple steps and reducing the risk of contamination.

- Pipet access allows to aspirate to replenish media and recover cells without pouring
- The mixing port enables rapid mixing inside the vessel and allows to add cell suspension, transfection, or other reagents directly to the flask. The port also enables uniform distribution of media and cells to facilitate homogeneous cell growth on all layers.

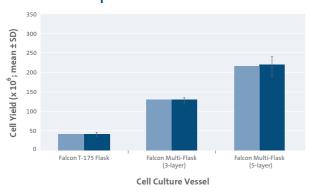
More consistent cell growth

Falcon Multi-Flasks' even distribution of media, proven vacuum gas-plasma tissue culture surface treatment, and effective gas exchange all combine to provide an optimal cell culture environment. The result is high cell yield and a homogeneous cell population.



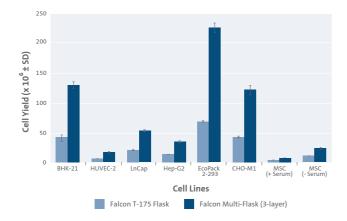


Predictable scale-up





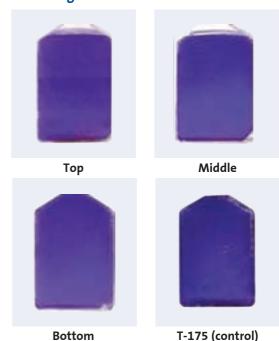
Three and five times the number of BHK-21 cells were grown and recovered from 3- and 5-layer Falcon® Multi-Flasks compared to T-175 flasks. Expected yield (left panel) was determined using mean cell yield from control T-175 flasks multiplied by three and five times for the 3- and 5-layer Falcon Multi-Flasks, respectively. Cell yield per cm² (right panel) was equivalent in 3- and 5-layer Multi-Flasks and T-175 flasks for BHK-21, LnCap, Hep-G2 and EcoPack™2-293 cells.



Compatible with your cell lines

Diverse cell lines and primary cultures (with and without serum) can be grown and efficiently recovered from Falcon Multi-Flask cell culture vessels. This graph illustrates the increased cell yield one can obtain from Falcon Multi-Flasks as compared to control T-175 flasks for various cell lines.

Consistent cell growth



This figure illustrates uniform cell growth between layers of Falcon Multi-Flasks. BHK-21 cells grown to >80% confluence in 3-layer Falcon Multi-Flasks and control T-175 flasks were fixed and stained with crystal violet. Control flasks and individual layers of the Falcon Multi-Flasks were cut and scanned.

Falcon Cell Culture Multi-Flasks Ordering Information

Cat. No.	Description	Surface Area (cm²)	Cap Style	Qty/Cs
Falcon Mi	ulti-Flasks			
353143	3-Layer TC-treated	525 cm ²	Vented	12
353144	5-Layer TC-treated	875 cm ²	Vented	8

Tips

▶ Contact your local Corning office for custom coating services.

Falcon® Flask Caps

A variety of caps to suit your cell culture requirements

Plug Seal caps

Falcon polyethylene plug seal caps provide a liquid-tight seal when closed and an open-incubation position for reliable gas exchange when partially opened. A reference bar on the outside of the cap is aligned with the "Falcon" on the flask for precise open-incubation conditions.

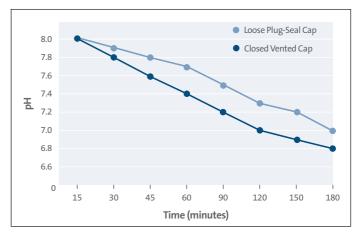
Convenient vented caps

- ▶ Ensure consistent gas exchange and minimize contamination
- Polyethylene caps with an integral, hydrophobic 0.2 μm microporous membrane filter vent allow consistent gas exchange when the caps are in the closed position (see graph). Gases required for cell growth and metabolism pass freely through the vent while microorganisms cannot. Falcon vented caps will not wet out.
- Vented caps minimize contamination associated with standard open incubation. The vented caps prevent media that can become trapped in a partially opened cap from blocking gas exchange. The caps will not fall off in the incubator because of vibration.

Falcon Flask Caps Ordering Information

Cat. No.	Description	
Vented Caps	for Falcon Flasks	
354637	For use on 25 cm ² Flasks	100
354638	For use on 75 cm ² Flasks	100
354639	For use on 175 cm ² Flasks	50





pH equilibration using vented caps after flasks are placed in an incubator (175 cm² Flasks, 5% CO² incubator)

Tips

Corrugated cardboard boxes are a source of particulates and associated microbial contamination and should not be kept in the tissue culture area. Corning Life Sciences has eliminated corrugated trays from most cases to reduce package waste. You can further reduce contamination due to corrugate by wiping the outside of any package or bag with alcohol or an appropriate disinfectant before putting it under the hood.

Falcon® CultureSlides

- ▶ Safe and easy chamber removal for microscopic analysis
- Innovative sealing design

Falcon CultureSlides for in situ analysis

Falcon CultureSlides allow you to culture cells and then analyze them on a glass microscope slide. Cells are grown in a plastic chamber affixed to a specially prepared glass microscope slide.

Cells can be fixed and stained in place without disruption of the cell monolayer. The chamber is easily and safely removed with an easy-to-use, disposable Safety Removal Tool.

Designed for consistent cell culture results

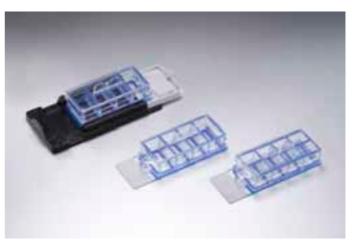
- Specially cleaned and triple-rinsed glass slides
- Performance validated with HEp-2 and BAE cells
- ▶ Tested for 72-hour confluency with MRC-5 and BAE cells

Features

- ▶ 1.2 mm beveled-edge slide, 25 mm x 75 mm, soda-lime glass
- Pressure-sensitive, biocompatible, non-migrating, acrylic-adhesive gasket
- ▶ Blue hydrophobic border defines cell culture areas
- ▶ Polystyrene vessel, lid, and tool
- Supplied with disposable Safety Removal Tool
- Wells numbered for easy identification
- Sterile
- Trays designed for use in incubator
- Shelf life specified on each package

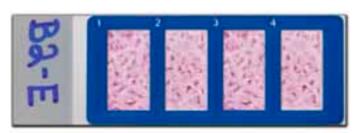
Partial list of cells cultured on Falcon CultureSlides

- Glioblastoma
- NLBT-2 line
- ▶ HEp-2 cells
- MRC-5 cells
- Fibroblasts: human foreskin
- ▶ E6 cells infected with HSV, CMV
- FS cells infected with HSV, CMV
- ▶ Primary rat skeletal muscle (with Corning® Matrigel® Matrix)
- Primary ventral spinal cord (with PDL/Laminin)
- Primary neurons (with Fibronectin, Laminin, Polyornithine, ECM Fragments)
- Primary bovine aortic endothelium (Fibronectin)
- PC-12 cells (Polyornithine/Laminin; PDL/Laminin)
- Primary SC6 rat cells (Collagen)
- Glial cells (Tenascin)



Simple Vessel Removal for Microscopic Analysis

A simple Safety Removal Tool lifts the plastic vessel off the glass slide. The adhesive gasket remains with the vessel, not on the slide, facilitating further processing or placement of coverslips.



Photograph of primary bovine aortic endothelial cells grown on Falcon CultureSlides and stained with crystal violet. The blue hydrophobic grid defines the cell culture area. A white writing patch provides clear sample identification. Well location numbers etched in the grid are clearly visible.

Falcon CultureSlides Ordering Information

Cat. No.	Description	Total Volume per Well (mL)	Working Volume per Well (mL)	Qty/ Pk	Qty/ Cs
4 well					
354104	1.7 cm ²	1.5-1.7	0.7-1.25	12	96
354114	1.7 cm ²	1.5-1.7	0.7-1.25	12	24
8 well					
354108	0.7 cm^2	0.7-0.75	0.3-0.5	12	96
354118	0.7 cm ²	0.7-0.75	0.3-0.5	12	24

Tips

▶ For enhanced cell performance, Corning BioCoat™ CultureSlides are available with pre-applied matrix proteins. For more information, visit www.corning.com/lifesciences

Falcon® Cell Culture Dishes

- Flat, optically clear polystyrene surfaces for distortion-free microscopic visualization of cells
- Uniform surface chemistry created by vacuum-gas plasma treatment promotes cell attachment
- Improved handling of small dishes with the unique Easy-Grip design
- Nonpyrogenic
- Sterilized by gamma irradiation
- Packaged in peel-open, medical-style bags
- Crystal-grade virgin polystyrene
- Standard Tissue Culture (TC), Corning® Primaria™ surface treatment and non-TC-treated polystyrene available

Designed for cell culture

- Flat, distortion-free optics
- Lids designed for optimal gas exchange
- > Stacking rings allow for easier stacking and handling
- Vacuum-gas plasma treatment permanently and consistently modifies the cell growth surface
- Standard tissue culture surface is hydrophilic and contains a variety of negatively charged functional groups that support cell attachment and spreading
- Corning Primaria tissue culture surface additionally incorporates nitrogen-containing functional groups and has been shown to support improved attachment, spreading, and differentiation of some cell types

Cell performance tests ensure consistent results

A sensitive clonogenic assay¹ using MRC-5 cells, a diploid human fibroblast line, is used to validate the manufacturing process for each Falcon tissue culture product. Routine testing of standard tissue culture products is performed by testing growth to confluency at 72 hours with MRC-5 cells. The surface chemistry of each lot of Corning Primaria products is confirmed by Electron Scanning for Chemical Analysis (ESCA).

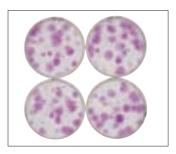
Reference

 Freshney, R.I., Culture of animal cells: a manual of basic technique, 2d ed., Wiley-Liss, London, p. 83 (1987).





Falcon Easy-Grip Dishes
The unique design and frosted
rim improve the handling of small
dishes. The ability to pick up a
small dish conveniently without
accidentally removing the lid
allows you to work faster and
improves aseptic manipulation.



Tissue Culture Process Validation Each Falcon tissue culture product is developed using a sensitive clonogenic assay¹. Shown here is a 35 mm dish with MRC-5 cells stained with crystal violet.

Falcon Cell Culture Dishes Ordering Information

Cat. No.	Actual Coating	Actual Dimensions (mm)	Working Growth Area (cm²)	Volume (mL)	Qty/Pk	Qty/Cs
35 x 10 mm Easy-Grip						
353001	Standard TC*	40.28 O.D. x 6.17	11.78	2.5-3.0	20	500
353801	Corning Primaria TC	40.28 O.D. x 6.17	11.78	2.5-3.0	20	200
60 x 15 mm Standard**						
353002	Standard TC	54.81 O.D. x 13.26	21.29	6.0-7.0	20	500
353802	Corning Primaria TC	54.81 O.D. x 13.26	21.29	6.0-7.0	20	200
60 x 15 mm Easy-Grip						
353004	Standard TC	52.10 O.D. x 13.13	19.5	6.0-7.0	20	500
100 x 20 mm Standard						
353003	Standard TC	89.43 O.D. x 19.18	58.95	16.0-17.5	20	200
353803	Corning Primaria TC	89.43 O.D. x 19.18	58.95	16.0-17.5	20	200
150 x 25 mm Gridded (20 mm grid mold	led in base)					
353025	Standard TC	142.57 x 24.77	156.36	45.0-50.0	10	100
60 x 15 mm Center-Well Organ Culture*	*					
353037	Standard TC	54.84 O.D. x 13.56	2.89	-	20	500

^{*} TC = Tissue Culture

Related Products

Corning Primaria Cultureware	22
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Non-Tissue Culture-treated Dishes	
(bacteriological grade)	44

Tips

- If you work with 35 mm or 60 mm dishes, try our Falcon Easy-Grip Dishes.
- Corning Life Sciences offers dishes for in vitro fertilization that are certified nonembryotoxic. Certification is based on a statistically relevant sample taken from each lot that is tested for embryotoxicity. See page 20 for additional information.
- ▶ Not treated polystyrene products are equivalent to bacteriological-grade polystyrene products.
- ▶ For enhanced cell performance, Corning BioCoat™ Dishes are available with pre-applied matrix proteins and Corning PureCoat™ Dishes are available with synthetic coating. For more information, visit www.corning.com/lifesciences.

^{**} For qualified In Vitro Fertilization Dishes, see page 20

Falcon® Plates

- Unique labyrinth lid, condensation rings, and deep-well design control contamination, reduce evaporation, and minimize edge effects
- Reliable vacuum-gas plasma tissue culture treatment provides well-to-well and plate-to-plate consistency

Reliable growth surfaces assure consistent cell performance

All tissue culture treatments render polystyrene hydrophilic and result in the incorporation of a variety of anionic functional groups that support cell culture. To ensure reproducible results and conditions, all Falcon tissue culture treatment is performed in a vacuum chamber.

Corning® Primaria™ tissue culture treatment additionally incorporates nitrogen-containing functional groups that have been shown to improve attachment and spreading of some cell types.

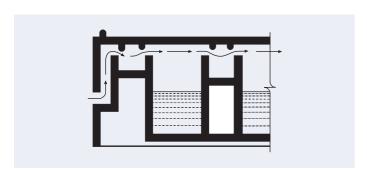
Falcon Non-Tissue Culture-treated plates have a more hydrophobic surface and show reduced cell attachment.

Cell tests ensure consistent results

A sensitive clonogenic assay¹ using MRC-5 cells, a diploid human fibroblast line, is used to validate the manufacturing process for each Falcon and Tissue Culture (TC) product. Routine testing of standard TC products is performed by testing growth to confluency at 72 hours with MRC-5 cells. The surface chemistry of each lot of Corning Primaria products is confirmed by Electron Scanning for Chemical Analysis (ESCA).

Reference

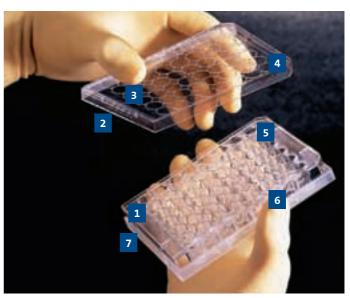
 Freshney, R.I., Culture of animal cells: a manual of basic technique, 2d ed., Wiley-Liss, London, p. 83 (1987).



Low-Evaporation Lid

An innovative labyrinth air-passage system provides a tortuous path for gas exchange across Falcon plates. This unique feature reduces evaporation and minimizes contamination.





- 1. Alphanumeric well identification
- 2. One-way lid
- 3. Condensation rings
- 4. Low-evaporation labyrinth lid
- 5. Deep wells
- 6. Serrated gripping panels
- 7. Writing patch

Falcon® Plates and Microplates

- Versatility of plate colors to suit various detection methods
- Crystal-grade virgin polystyrene
- Sterilized by gamma irradiation
- Nonpyrogenic
- Non-treated polystyrene, standard tissue culture (TC), and Corning® Primaria™ surface treatments available
- Convenient, peel-open medical-style packaging for individual product presentation
- Individual and Ready-Stack (RS) trays are PET (Code 1) and recyclable
- ▶ Falcon 96, 384, and 1536 well microplates are compatible with automation systems and meet standard ANSI/SBS footprint dimensions for microplates
- ▶ Growth area and volume are nominal See page 40 for more details

Applications

- Ion channel/Calcium flux (FLIPR)
- ▶ GPCR (Act/Inact)
- Cell cytoxicity
- ▶ Cell proliferation
- Cell adhesion
- Differentiation (primary cells)
- Cell migration
- Reporter gene
- Neurite outgrowth

Falcon Plates and Microplates Ordering Information

Cat. No.	Surface	Growth Area (cm²)	Well Volume (mL)	Qty/Pk	Qty/Cs
6 well plates, flat-bottom with lid					
353046	Standard TC*	9.6	15.5	1/tray	50
353224	Standard TC	9.6	15.5	6/bag	36
353934	Standard TC	9.6	15.5	10/RS tray	60
353846	Corning Primaria TC	9.6	15.5	1/tray	50
351146	Non-TC-treated	9.6	15.5	1/tray	50
12 well plates, flat-bottom with lid					
353043	Standard TC	3.8	6.0	1/tray	50
353225	Standard TC	3.8	6.0	6/bag	36
351143	Non-TC-treated	3.8	6.0	1/tray	50
24 well plates, flat-bottom with lid					
353047	Standard TC	2.0	3.5	1/tray	50
353226	Standard TC	2.0	3.5	6/bag	36
353935	Standard TC	2.0	3.5	10/RS tray	60
353847	Corning Primaria TC	2.0	3.5	1/tray	50
351147	Non-TC-treated	2.0	3.5	1/tray	50
48 well plates, flat-bottom with lid					
353078	Standard TC	0.75	1.4	1/tray	50
353230	Standard TC	0.75	1.4	6/bag	36
351178	Non-TC-treated	0.75	1.4	1/tray	50
96 well microplates, flat-bottom with lid					
353072	Standard TC, clear	0.32	0.37	1/tray	50
353075	Standard TC, clear	0.32	0.37	5/bag	50
353936	Standard TC, clear	0.32	0.37	14/RS tray	84
353916	Standard TC, clear	0.32	0.37	25/bag	100
353296	Standard TC, white	0.32	0.37	5/bag	100
353376	Standard TC, black	0.32	0.37	8/bag	32
353377 S	tandard TC, white/clear	0.32	0.37	8/bag	32
353219 S	standard TC, black/clear	0.32	0.37	8/bag	32
353872	Corning Primaria TC	0.32	0.37	1/tray	50
351172	Non-TC-treated	0.32	0.37	1/tray	50
96 well microplates, U-bottom with lid (exce	pt as indicated)				
353077	Standard TC	0.36	0.32	1/tray	50
353227	Standard TC	0.36	0.32	5/bag	50
351177	Non-TC-treated	0.36	0.32	1/tray	50
353910 Non-T	C-treated, no lid, non-steri	le 0.36	0.32	5/bag	50
5 06 11 : 1 1 1: : 1	20				

For 96 well microplate dimensions, please see page 38

www.corning.com/lifesciences 17

Falcon® Microplates

- Ideal for use in high throughput systems
- Falcon 384 and 1536 well microplates are compatible with automation systems and meet standard ANSI/SBS footprint dimensions for microplates

Falcon Microplates Ordering Information

	1		
Cat. No.	Description	Qty/Pkg	Qty/Cs
Growth Ar	nicroplates, flat-bottom with lid (except ea: 10 mm², small volume: 2,7 mm² ne: 130 μL, small volume: 28 μL	as indicated)	
353961	Standard TC, clear	5/bag	50
353988	Standard TC, white	5/bag	50
353380	Standard TC, white, small volume, no lid	10/bag	80
353378	Standard TC, black	5/bag	50
353379	Standard TC, black, small volume, no lid	10/bag	80
353963	Standard TC, white/clear	5/bag	50
353962	Standard TC, black/clear	5/bag	50
	· ·		
353381	Standard TC, white, high-base	15/bag	60
353382	Standard TC, black, high-base	15/bag	60
353384	Standard TC, white/clear, high-base	15/bag	60
353386	Standard TC, white/clear, low-base	15/bag	60
353383	Standard TC, black/clear, high-base	15/bag	60
353385	Standard TC, black/clear, low-base	15/bag	60
Low-evapo	ration lids		
353836	4 mm ultra-low profile polystyrene for 96, 384, 384 small volume, and 1536 well microplates, sterile	5/bag	100
353958	6 mm polystyrene, for 96 and 384 well microplates, non-sterile	5/bag	100

For microplate dimensions, please see page 38

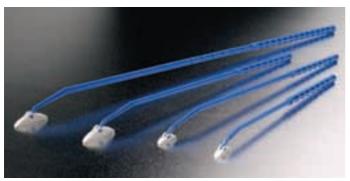


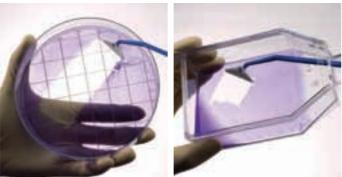
Tips

- ▶ Contact your materials management department to find out about PET recycling in your community.
- For information on bar coding services, contact your local Corning office or visit www.corning.com/lifesciences.

Falcon® Cell Scrapers

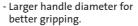
- The improved Falcon Cell Scrapers have been thoughtfully designed to provide maximum accessibility to the growth surfaces in a variety of culture vessels
- Cross-ribbed polystyrene handle provides greater rigidity to ensure better control while scraping cells
- ▶ Flexibility of the joint between the blade and handle improves ease of access into the neck of a flask or roller bottle
- Highly compliant thermoplastic elastomer (TPE) blade pivots to provide multiple angles to remove cells from the entire growth surface
- Available in four sizes—choose the blade and handle length to best accommodate your needs
- Supplied individually in peel-open, medical-style packaging for sterile presentation





The improved Falcon Cell Scraper (Cat. No. 353089) has a larger blade to increase cell scraping efficiency in both Falcon Dishes and 75 cm² Flasks.





- Sharper scraping edge
- More compliant blade material

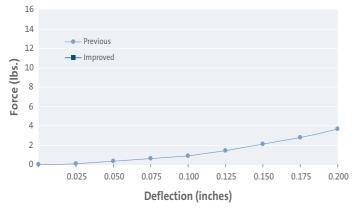


Unique blade design transfers scraping force to the blade edge, allowing it to conform to the scraping surface.



"Barbs" ensure blade remains attached to handle.

Resultant Bending Force* Previous vs. Improved Falcon Cell Scrapers



Force required to deflect a simply supported 5" portion of the handle 2.5" distal to the handle section: resultant = ('X' force) ('Y' force)

Falcon Cell Scrapers Ordering Information

Cat. No.	Description	Qty/Pk	Qty/Cs
1.8 cm TPE	Blade		
353085	18 cm polystyrene handle for use with Falcon 25 cm ² Flasks	1	100
353086	25 cm polystyrene handle for use with Falcon 75 cm ² Flasks	1	100
3.0 cm TPE	Blade		
353089	25 cm polystyrene handle for use with Falcon Dishes and 75 cm ² Flasks	1	100
353087	40 cm polystyrene handle for use with large Falcon Flasks	1	100

Falcon® In Vitro Fertilization Plasticware

- Qualified plasticware for in vitro fertilization (IVF) and assisted reproduction techniques
- US Food and Drug Administration (FDA) cleared Class II medical device
- Manufactured in accordance with FDA Quality System Regulation 21 CFR Part 820 (cGMP)
- ▶ CE marked in compliance with the European Medical Devices Directive 93/42/EEC
- Manufactured under EN ISO 9001 and EN ISO 13485 quality standards



Qualified Falcon IVF products

Falcon *In Vitro* Fertilization (IVF) products are the first plastic-ware available that is certified sterile, nonpyrogenic and nonembryotoxic. These qualified products save you time and expense in complying with the College of American Pathologists (CAP) and American Fertility Society (AFS) recommended standards for IVF labs. IVF Products are classified by the US FDA as Class II medical devices per the 21 CFR Part 884. These devices are classified as Medical Devices Class IIa according to the Medical Devices Directives 93/42/EEC.

Features

- Nonembryotoxic
- Nonpyrogenic tested to less than 0.1 EU/mL or 5 EU/device
- ▶ Tissue Culture-treated for a consistent hydrophilic surface
- IVF Low Wall Dish for ICSI procedure specifically are non-TC-treated for facilitated media droplet creation
- Sterilized by gamma irradiation to a Sterility Assurance Level (SAL) of 10⁻⁶
- ▶ Packaged in peel-open, medical-style packaging
- Multi-unit bags have reseal tabs

Mouse embryo testing

Each lot of Falcon IVF product is tested for embryotoxicity using the 1-cell mouse embryo assay. Mouse embryos are isolated at the 1-cell stage from B₆C₃F₁ females following super ovulation with gonadotropin and mating with B₆D₂F₁ males. Falcon IVF products are tested using both a direct and indirect test method. In the direct assay, the embryos are cultured directly in the IVF labware. For the indirect assay, culture media is incubated in the IVF labware for 24 hours at 37°C. The incubated media is then transferred to a culture plate and the 1-cell mouse embryo assay is performed. Products are deemed nonembryotoxic if they support the growth of more than 75 percent of the embryos to the expanded and/or hatched blastocyst stage.

In conjunction with embryologists, Corning designed an innovative 4 well plate to improve manipulation of ova and embryos. A unique lid reduces the risk of contamination and minimizes evaporation by providing access to two wells at a time, while two remain covered. The wells are numbered and a large writing patch allows clear sample identification. Plates are packaged in individual peel-open trays for sterile presentation.

Falcon IVF dishes and 4 well plates are manufactured from virgin crystalline polystyrene tested for USP Class VI cytotoxicity. They have flat, optically clear surfaces for optimum manipulation and observation of ova and embryos. Lids were designed for aseptic manipulation and consistent venting to maintain humidification (except for the low wall dish designed with a tight fit lid).

Falcon Low Wall Dish

Non-Tissue Culture-treated Falcon Low Wall Dish can be utilized in the ICSI (IntraCytoplasmic Sperm Injection) procedure. This 50 mm dish has many of the same features as the other IVF products except the dish is non-Tissue Culture-treated (non-wettable) for optimal media droplet consistency.

This specific Falcon dish is also a low wall dish making the micromanipulations of the procedure performed easier. This product is packaged in individually sealed blister compartments so one dish can be accessed at a time and the remaining ones can be kept protected. Procedures requiring long term incubation are not recommended in the Falcon IVF Low Wall Dish due to the tight lid fit which results in low gas exchange rates.

Intended Use:

Falcon IVF devices (353652, 353653, 353654 and 353655) are sterile, nonpyrogenic, embryotoxicity tested, single-use plastic-ware intended to prepare, store, manipulate or transfer human gametes or embryos for *in vitro* fertilization or other assisted reproduction procedures.

Falcon *In Vitro* Fertilization Plasticware Ordering Information

Cat. No.	Description	Qty/Pk	Qty/Cs	
Low-Wall	Dish, 50 x 9 mm			
353655	Well Area: 18.3 cm ²			
	Height: 8.6 mm	4	100	
IVF Round	l Dish, 60 x 15 mm			
353652	Well Area: 21.29 cm ²			
	Well Vol.: 23.0 mL	20	500	
IVF One W	/ell Dish, 60 x 15 mm			
353653	Well Area: 2.45 cm ²			
	Well Vol.: 2.5 mL			
	Total Vol.: 20 mL	20	500	
IVF Four v	IVF Four well Plate, 17 x 11 mm			
353654	Well Area: 1.39 cm ²			
	Well Vol.: 1.8 mL	1	100	

Note: The lids of the Falcon IVF Products are not certified nonembryotoxic



Individual certificates, containing actual test results, are available for each lot by contacting Technical Support or visiting **www.corning.com/lifesciences** after you receive your order.

Corning® Primaria™ Cultureware

- Unique nitrogen-containing tissue culture surface chemistry
- Improves attachment, spreading, and growth for many primary cells or cell lines
- Crystal-grade polystyrene modified by proprietary vacuumgas plasma treatment process
- > Stable, permanent surface modification
- Optically clear
- No special storage required
- Samples from each lot of Corning Primaria products are analyzed by Electron Scanning for Chemical Analysis (ESCA)
- Packaged in red color-coded, peel-open, medical-style packages
- Sterilized by gamma irradiation
- Nonpyrogenic tested to less than 0.1 EU/mL

Unique surface chemistry for enhanced cell culture

Consistent cell culture conditions are required for reproducible research results. In the manufacture of all cell cultureware surfaces, hydrophobic polystyrene is permanently rendered hydrophilic to support cell attachment and spreading^{1,2,3}. The consistency of this surface depends on the treatment method used.

Many manufacturers have long used atmospheric plasma treatments (i.e., corona) to create hydrophilic surfaces. In corona treatment, a high-voltage discharge creates a reactive gas plasma above the growth surface of the vessel. In this process, the highly interactive gas plasma mixture is created from ambient air. The consistency of the treatment surface can, therefore, be compromised by day-to-day environmental changes.

At Corning Life Sciences, molded polystyrene vessels are placed in a chamber where a partial vacuum is created. A vacuum-gas plasma treatment is fed into the chamber to create a number of negatively charged functional groups on the surface of the polystyrene vessels. The enclosed, highly controlled environment prevents contamination from the ambient air, ensuring a pure and consistent treatment surface.

A major research investment resulted in the development of this unique vacuum-gas plasma process used to produce both Corning Primaria and traditional tissue culture (TC) surfaces on Falcon® Dishes, Flasks, and Plates. The gases used to manufacture Corning Primaria contain both oxygen and ammonia, resulting in the incorporation in the surface of a variety of nitrogen-containing functional groups in addition to the negatively charged oxygen-containing groups found on traditional TC surfaces.

The incorporation of nitrogen-containing cations has been correlated to attachment and spreading of primary endothelial cells in a clonal cell-growth assay⁴. The complex surface on Corning Primaria Cultureware is homogeneous and stable and has been in use by researchers for over two decades to improve attachment and differentiation of a variety of cell types. For example, cell biologists have used Corning Primaria for cultivating hepatocytes^{5,6}, neuronal cells⁷, and other endothelial cells⁸.

The surface chemistry of Corning Primaria products is confirmed by Electron Scanning for Chemical Analysis (ESCA).

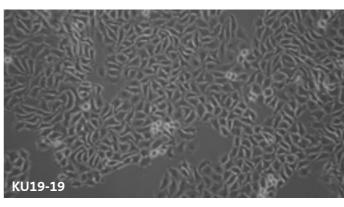
Note: At pH 7, carboxy groups may be slightly dissociated and assume a negative (anionic) charge. Amine groups may protonate and assume a positive charge (cationic).

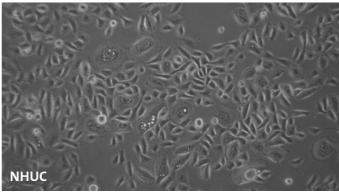
A partial list of cell types cultured on Corning Primaria Cultureware

- ▶ Hepatocytes^{5,6,9,18}
- ▶ Transfected COS-7¹⁰
- ▶ Transfected HEK-293¹²
- ▶ CHO¹³
- ▶ Primary Cardiac Myocytes¹⁵
- Primary SMC¹⁴ and Skeletal Muscle Cells¹⁶
- Osteoblasts¹⁷
- Neuronal Cells⁷
- Endothelial Cells⁸

Corning® Primaria™ Cultureware Ordering Information

Corning	g® Primaria''' Cu	litureware O	raering into	ormat	ion
Cat. No.	Actual Dimensions (mm)	Actual Growth Area (cm²)	Working Volume (mL)	Qty/ Pk	Qty/ Cs
Dishes					
35 x 10 n	nm Easy-Grip				
353801	40.28 O.D. x 6.17	11.78	2.5-3.0	20	200
60 x 15 n	nm Standard				
353802	54.81 O.D. x 13.26	21.29	6.0-7.0	20	200
100 x 20	mm Standard				
353803	89.43 O.D. x 19.18	58.95	16.0-17.5	20	200
Cat. No.	Description	Growth Area (cm²)	Total Volume (mL)	Qty/ Pk	Qty/ Cs
Flasks					
25 cm ² w	ith canted neck				
353813	Plug Seal Caps	25	50	20	200
353808	Vented Caps	25	50	20	100
75 cm ² w	ith straight neck				
353824	Plug Seal Caps	75	250	5	100
353810	Vented Caps	75	250	5	100
Cat. No.		Growth Area (cm²)	Working Volume (mL)	Qty/ Pk	Qty/ Cs
Plates					
	te with lid				
353846		9.6	15.5	1	50
24 well P	late with lid				
353847		2.0	3.5	1	50
96 well M	Nicroplate with lid, fl	at-bottom			
				_	





Epithelial bladder cancer cells (KU19-19), and normal human urothelial cells (NHUC) cultured for 4 days on Corning Primaria 6 well plates (353846). Magnification 100 X. Micrographs courtesy of Cancer Research UK laboratories at St James University Hospital, Leeds.

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353872

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0.32

0.37

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Falcon® Cell Culture Inserts and Companion Plates

Falcon Cell Culture Inserts permit the diffusion of media components to both apical and basolateral cell surfaces, mimicking the *in vivo* process



Falcon Cell Culture Inserts are available in convenient 6, 12, and 24 well sizes. Packed in individual blisterpacks, Falcon Cell Culture Inserts give you the flexibility to run from 1 to 24 samples at one time.

Cell culture on microporous membranes

Cell culture systems containing microporous, permeable membranes have been shown to promote differentiation of a variety of epithelial and mesenchymal cells in vitro. Because of the bilateral access to nutrients, cytokines, hormones and other media supplements, cells cultured on permeable supports show a higher degree of morphological and functional differentiation when compared to cells cultured on non-permeable plastic surfaces. Falcon Cell Culture Inserts have been successfully used for a variety of applications, including transport, diffusion, secretion, permeability, and drug uptake studies of natural and synthetic compounds; analysis of cellular uptake of pathogens; in vitro toxicology studies using a variety of cells; analysis of cellular migration and invasion of normal and malignant cells; co-culture studies and air-liquid interface models. Independent access to the apical and basolateral domains of polarized cells permits the study of protein sorting, receptor localization and microbid pathogenesis.

Typical applications for Falcon Cell Culture Inserts

- Endothelial models for studies of cell-cell interaction, adhesion, angiogenesis, matrix formation, cell-ECM interaction, metastasis, inflammation, and invasion
- Respiratory epithelium culture for pharmacology, toxicology, cystic fibrosis research, and microbial pathogenesis
- Renal tubule cell culture for in vitro toxicology and pharmacology
- Normal Human Epidermal Keratinocyte in vitro toxicology models
- ▶ Epithelial polarity studies on MDCK, LLPCK, and other cell types
- Hepatocyte culture for drug toxicity and biotransformation studies
- Culture of intestinal epithelial cells for drug bioavailability studies

Falcon Cell Culture Inserts contain polyethylene terephthalate (PET) membranes, which are available in a wide variety of pore sizes and densities. The insert housing, also made from PET, is not tissue culture (TC)-treated in order to minimize cell growth on insert side walls. For best results, Falcon Cell Culture Inserts should be used together with Falcon Cell Culture Insert Companion Plates. These Companion Plates are TC-treated and feature a unique labyrinth lid design and condensation rings, which reduce evaporation and contamination.

Due to the low protein binding property of PET membranes, Falcon Cell Culture Inserts are especially suited for immunohistochemistry¹, co-culture to study intercellular communication², transport studies³, and drug screening^{4,5}. Compatibility with fixatives and the durability of PET membranes makes them ideal for both light and electron microscopy¹. Membranes will not tear or curl and remain easy to handle when removed from the insert housing.

Select the best membrane for your application

- Larger pore size membranes for investigating chemotaxis, invasion, and migration
- Transparent membranes for visualization of cells by light microscopy (See Figure A below, 0.4 μm)
- High pore density membranes for maximal diffusion when studying transport, secretion, or drug uptake (See Figure B below, 0.4 μm HD)



Figure A

Figure B

Falcon Cell Culture Inserts

- Track-etched PET membranes have a smooth surface and defined cylindrical pores that traverse the membrane
- ▶ Low protein binding PET membrane
- Sterilized by gamma irradiation
- A wide variety of configurations including 6, 12, and 24 well
-) A broad selection of membrane pore sizes, 0.4, 1.0, 3.0, and 8.0 μm diameter
- ▶ Packed in individual blister packs, 48 inserts/case
- Non-Tissue Culture-treated insert housings prevent promiscuous growth of cells on the insert walls
- Innovative hanging design facilitates pipeting and allows for co-culture

Falcon Cell Culture Insert Companion Plates

Falcon Cell Culture Insert Companion Plates have been specially designed for use with Falcon or Corning® BioCoat™ Cell Culture Inserts so evaporation and contamination due to improper lid fit is eliminated.

In the Feeding Position, pipet access is improved for fluid handling on the basolateral side. Reagents can be added quickly and consistently for timed experiments. Aspiration of media from the well is easier, reducing the risk of contamination.

In the Incubation Position, Falcon Cell Culture Inserts remain locked in position in their Falcon Companion Plate wells. Media will not wick up between the insert and well wall. The unique Falcon low-evaporation lid provides a tortuous airpassage system that reduces evaporation and contamination.

References

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- 5. Dehouck, M.P., et al., J. Neurochem. 54:1798 (1990).

Positioning Notches Figure 1 Notches Figure 1 Figure 2 Figure 2 Figure 2 Figure 3 Figure 4 Figure 4 Figure 4 Figure 5 Figure 4 Membrane Membra

Falcon® Cell Culture Inserts and Companion Plates (Continued)

Falcon Cell Culture Inserts Ordering Information

Transparent PET Membrane

 $0.4 \mu m$ pore size, 1.6×10^6 pores/cm²

Cat. No.	Description	Qty/Pk	Qty/Cs
353090	Inserts for 6 well plates	1	48
353180	Inserts for 12 well plates	1	48
353095	Inserts for 24 well plates	1	48

Applications

- Scanning and transmission electron microscopy
- Visualization of live cells by light microscopy
- Removal of membrane from housing
- Immunocytochemical staining

High Density, Translucent PET Membrane

 $0.4 \mu m$ pore size, 1.0×10^8 pores/cm²

Cat. No.	Description	Qty/Pk	Qty/Cs
353493	Inserts for 6 well plates	1	48
353494	Inserts for 12 well plates	1	48
353495	Inserts for 24 well plates	1	48

Applications

- Transport, diffusion and secretion of small molecules into, out of, or through a cell monolayer
- Barrier function (Transepithelial Electrical Resistance (TEER) measurements)
- Drug bioavailability

Transparent PET Membrane

 $1.0 \mu m$ pore size, 1.6×10^6 pores/cm²

Cat. No.	Description	Qty/Pk	Qty/Cs
353102	Inserts for 6 well plates	1	48
353103	Inserts for 12 well plates	1	48
353104	Inserts for 24 well plates	1	48

Applications:

- General-purpose membrane
- Growth and visualization of live cells
- Transport, secretion, and diffusion of most molecules into, out of, and through cell monolayers
- Immunocytochemical staining
- Drug bioavailability assays
- In general, this is the maximum pore size available to prevent cell migration through pores

Transparent PET Membrane

 $3.0 \mu m$ pore size, 8×10^5 pores/cm²

Cat. No.	Description	Description Qty/Pk Qt	
353091	Inserts for 6 well plates	1	48
353181	Inserts for 12 well plates	1	48
353096	Inserts for 24 well plates	1	48

Applications:

- Visualization by light microscopy
- Transmission and scanning electron microscopy
- Useful for studying transport of larger molecules (lipoproteins) and viruses
- ▶ Transendothelial migration
- ▶ Smooth muscle migration
- ▶ Endothelial cell migration

Note: In long-term cultivation, epithelial cells grown in a monolayer may traverse a naked membrane and grow on the top and bottom of the membrane.

High Density, Translucent PET Membrane

3.0 µm pore size, 2 x 10⁶ pores/cm²

Cat. No.	Description	Qty/Pk	Qty/Cs
353092	Inserts for 6 well plates	1	48
353292	Inserts for 12 well plates	1	48
353492	Inserts for 24 well plates	1	48

Applications:

- ▶ Transport, secretion and diffusion of large molecules or viruses
- ▶ Cell migration studies
- This pore size offers maximum diffusion of large molecules or viruses

Note: In long-term culture, epithelial cells grown in a monolayer may traverse a naked membrane and grow on the top and bottom of the membrane.

Transparent PET Membrane

8.0 μm pore size, 1 x 10⁵ pores/cm²

Cat. No.	Description	Qty/Pk	Qty/Cs
353093	Inserts for 6 well plates	1	48
353182	Inserts for 12 well plates	1	48
353097	Inserts for 24 well plates	1	48

Applications:

- Tumor invasion
- Cell migration
- Chemotaxis
- Metastasis

Falcon Cell Culture Insert Companion Plates Ordering Information

Falcon Cell Culture Insert Companion Plates

Specifically designed for use with Falcon or Corning® BioCoat™ Cell Culture Inserts. Tissue Culture-treated, polystyrene, sterile, nonpyrogenic, with lid. May be used with or without cell culture inserts.

Cat. No.	Description	Qty/Pk	Qty/Cs	
355467	6 well plate (Deep-Well)	1	4	
353502	6 well plate	1	50	
353503	12 well plate	1	50	
353504	24 well plate	1	50	

The following Application Notes are available by searching for the literature code at www.corning.com/lifesciences.

No.	Author/Title	Lit. Code
401	K. Amsler, et al.	CLS-DL-CC-060
	Maintenance and Functional Properties of Primary To Bladder Epithelial Cells Cultured on Falcon Cell Cultur Inserts	
402	E. J. Roemer and Simon S. R. Simon	CLS-DL-CC-061
	Falcon Cell Culture Inserts as a Supportive Substrate j In Vitro Extracellular Matrix System	for an
405	H. Gray and O Fedun Preparation of Falcon Cell Culture Inserts for Scanning Electron Microscopy	CLS-DL-CC-062 g
406	M. Gray and F. Morris	CLS-DL-CC-063
400	Preparation of Falcon Cell Culture Inserts for Transmi. Electron Microscopy	
407	E.J. Roemer	CLS-DL-CC-064
	An In Vitro Assay for Study of Neutrophil Migration Through Interstitial Matrix Using Falcon Cell Culture	Inserts
408	B. J. Johnson	CLS-DL-CC-065
	Induction of Lymphoproliferation by Antigen-primed Macrophage Across Falcon Cell Culture Inserts	
409	J. Font, et al.	CLS-DL-CC-066
	Use of Falcon Cell Culture Inserts to Reconstruct a Differentiated Human Epidermis In Vitro: Expression Adhesion Molecules (Integrins)	of Cell
412	W.I. deBoer, et al.	CLS-DL-CC-067
	A Physiological and Morphological In Vitro Model for Nomal Human Urothelium Cultured on Falcon Cell C Inserts	ulture
413	X. Quan and H.P. Godfrey	CLS-DL-CC-068
	In Vitro Study of Cytokine Mediated Activation of Endothelial Cell Permeability Using Falcon Cell Cultur Inserts	re
459	Mark W. Musch	CLS-DL-CC-079
	Preparation of Falcon Cell Culture Inserts for Confoca Indirect Immunofluorescence: Fixation and Staining Caco-2/bbe (C2) Cells with Various Dyes	
463	Y. Yamasaki	CLS-DL-CC-081
-	Use of Falcon Cell Culture Inserts to Evaluate Allelopa Effects Among Marine Phytoplankters In Vitro	

For additional references or for help with an application, please contact Corning Life Sciences Technical Support.

Physical Specifications for Falcon Cell Culture Inserts

	6 well	12 well	24 well
Effective Diameter of Membrane (mm)	23.1	10.5	6.4
Effective Growth Area of Membrane (cm²)	4.2	0.9	0.3
Insert Height (mm)	17.2	17.2	17.5
Distance from Membrane to the Bottom of the Well (mm)	0.9	0.9	0.8
Suggested Media in Insert (mL)	1.5-2.5	0.4-1.0	0.2-0.35
Suggested Media in Well (mL)	2.7-3.2	1.4-2.3	0.7-0.9
Growth Area in Plate Well (cm²)	9.6	3.8	2.0

Tips

- ▶ Falcon Cell Culture Inserts are also available in an automation friendly, one-piece Multiwell Insert plate format. Available in 1.0, 3.0, and 8.0 µm pore sizes for manual and robotic screening of cells. Please see pages 28 and 30 for more detailed information.
- ▶ Falcon Cell Culture Inserts are also available with consistently pre-applied extracellular matrix (ECM) proteins and ECM components for improved cell attachment, growth or differentiation. For more information, visit www.corning.com/lifesciences
- ▶ For applications based on fluorescent techniques see Corning® FluoroBlok™ Inserts (pages 32 and following).
- You may have to increase your seeding density (number of cells/cm²) when changing from non-permeable polystyrene to permeable cell culture surfaces. Start with seeding cell densities 25-50% higher. The time for initial attachment may also increase.
- ▶ To avoid air bubbles forming under the inserts, use pre-warmed media and follow the directions found in each case for placing inserts into plate wells.
- ▶ To improve cell attachment to uncoated inserts, incubate inserts for 20-30 minutes with media (containing serum if it will be used) before adding cells.

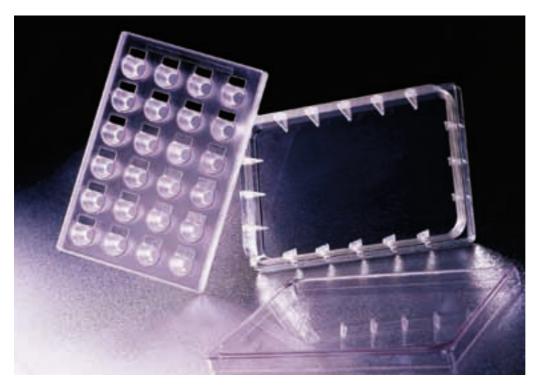
Related Products

	Falcon 24 Multiwell Insert Systems	28
b	Falcon 96 Multiwell Insert Systems	30

27 www.corning.com/lifesciences

Falcon® 24 Multiwell Insert Systems

- Automate and increase productivity and throughput of cell culture insert-based assays
- Designed for bioavailability, transport, permeability, cell migration, and tumor invasion studies



Falcon 24 Multiwell Insert Systems Free your lab from tedious manipulation of individual cell culture inserts with Falcon 24 Multiwell Insert Systems. Each system contains an automation-friendly 24 well cell culture membrane insert suitable for both manual and robotic screening of cells in bioavailability, toxicity, cell migration, and tumor invasion assays.

Falcon 24 Multiwell Insert Systems are designed to automate many commonly used cell-based assays for drug discovery. Available in a choice of membrane pore sizes, 24 Multiwell inserts have been successfully used for a variety of applications including permeability studies for oral bioavailability (e.g., Caco-2 cells), chemotaxis, cell migration and invasion assays. These insert systems offer all the benefits of Falcon Individual Cell Culture Inserts in an automation-friendly format that is compatible with most robots and fluid handlers. The Falcon 24 Multiwell Insert Plate is a single unit that is compatible with all Falcon 24 well plates and Feeder Tray.

Typical applications for Falcon 24 Multiwell Insert Systems

- Culture of intestinal epithelial cells (e.g., Caco-2 cells) for drug bioavailability and transport studies
- Barrier function [TEER] measurements of epithelial cells (i.e., MDCK cells)
- Epithelial polarity studies of protein sorting, receptor location, and vectorial transport
- ▶ Hepatocyte cultures for drug toxicity and biotransformation
- Angiogenesis studies
- Tumor cell invasion and migration

Physical Specifications

Falcon 24 Multiwell Insert Systems and Cell Culture Insert Companion Plates

Effective Diameter of Membrane (mm)	6.5
Effective Growth Area of Membrane (cm²)	0.3
Distance of Membrane to Bottom of Well (mm)	2.0
Insert Height (mm)	18
Suggested Media Volume in Insert (μL)	300-500
Suggested Media Volume in Well (μL)	1000-1400
Effective Growth Area in 24 well Plate (cm² per well)	2.0
Pore Density: 1.0 μm inserts (pores/cm²)	1.6 x 10 ⁶
Pore Density: 3.0 μm inserts (pores/cm²)	8.0 x 10 ⁵
Pore Density: 8.0 μm inserts (pores/cm²)	1.0 x 10 ⁵

Falcon 24 Multiwell Insert Systems Ordering Information

Falcon® 24 Multiwell Insert Systems

with Feeder Tray and Lid

Cat. No.	Description	Qty/Pk
351180	1 μm pore size	1
351181	1 μm pore size	5
Falcon 24 Mult with 24 well Pl	iwell Insert Systems ate and Lid	
351182	3 μm pore size	1
351183	3 μm pore size	5
351184	8 μm pore size	1
351185	8 μm pore size	5

Falcon 24 Well Feeder Tray

Specifically designed for use with Falcon 24 Multiwell Insert Systems

351186 Feeder Tray with Lid 5

Falcon 24 Well Plates

For use with Falcon 24 Multiwell Insert Systems

Cat. No.	Description	Qty/Pk	Qty/Cs
353047	Standard Tissue Culture	1	50
353226	Standard Tissue Culture	6	36
353935	Standard Tissue Culture	10	60
353847	Corning® Primaria™ Tissue Culture	1	50
351147	Not Treated	1	50

The following Application Note is available by searching for the literature code at **www.corning.com/lifesciences**.

CLS-DL-CC-072
tible

For additional references or for help with an application, please contact Corning Life Sciences Technical Support.

Related Products

www.corning.com/lifesciences

Falcon® 96 Multiwell Insert Systems

Automate and miniaturize your xenobiotic permeability and transport studies



The Falcon 96 Multiwell Insert System is a cell culture insert platform suitable for both manual and robotic screening of compounds in cell-based assays. The system has been tested for its ability to produce a differentiated monolayer of Caco-2, LLC-PK₁, and MDCK cells making it an ideal platform for *in vitro* bioavailability and permeability studies.

This automation compatible platform is composed of a 1.0 μ m pore size PET membrane-based 96 Multiwell Insert plate, a media feeder tray, and a lid. The drop-in baffle for the Feeder Tray mitigates media sloshing and lowers the risk of contamination. To analyze individual samples, simply transfer the insert plate into the Falcon 96 Square Well, Angled-Bottom Plate. If desired, the Falcon 96 Square Well, Angled-Bottom Plate may be used in conjunction with the insert for culturing the cells, eliminating the transfer step from the single-well feeder tray for sample analysis.

- Automation compatible design
- Format compatible with most robots and fluid handling instruments
- Complete sample recovery
- ▶ The Falcon 96 Square Well, Angled-Bottom Plate features an angled bottom for more complete sample utilization
- Excellent reproducibility
- One-piece feeder tray enhances consistency in well-to-well monolayer growth
- ▶ Total assay flexibility—ideal for transport studies
- System can be used with many cell lines including Caco-2, MDCK, and LLC-PK₁, for basal to apical or apical to basal measurements of drug transport

31

Intra-Plate Reproducibility of the Falcon® 96 Multiwell Insert System

Format used to Culture Monolayers	TEER (ohms cm ²)	Mannitol P _{app} (x 10 ⁻⁶ cm/sec)	Ritonavir P _{ap} (x 10 ⁻⁶ cm/sec)
Falcon 96 Square Well,	272	0.72	9.0
Angled-Bottom Plate	(CV=26%)	(CV=22%)	(CV=13%)
Falcon Feeder Tray for	420	0.70	11.0
96 Multiwell Insert	(CV=16%)	(CV=13%)	(CV=2.5%)

Permeability measured in Caco-2 cell monolayers cultured for 21-days in the Falcon Feeder Tray or Falcon 96 Square Well, Angled-Bottom Plate. While the Feeder Tray with drop-in baffle facilitates medium renewal, comparable results can be obtained in either format. Culturing cells in the Falcon Feeder Tray enhances consistency in well-to-well monolayer growth (TEER values) and function ($P_{\rm app}$ values).

Physical Specifications

Falcon 96 Multiwell Insert Systems

Effective Diameter of Membrane (mm)	3.2
Effective Growth Area of Membrane (cm²)	0.0804
Insert Height (mm)	10.4
Distance from Membrane to the Bottom of Well (mm) (low side inner)	2.87
(high side inner)	4.27
Suggested Media Volume in Insert (mL)	0.5-0.75
Suggested Media Volume in Well (mL)	0.26
(square well, angled bottom plate)	0.26
Growth Area in Companion TC Plate Well (cm²)	0.64

Falcon 96 Multiwell Insert Systems Ordering Information

Cat. No.	Description	Qty/Pk
Falcon 96 A	Aultiwell Insert Systems	
351130	One insert plate with feeder tray and lid	1
351131	Five insert plates with feeder trays and lids	5
353938	Five insert plates with 96 square well, angled-bottom plates and lids	5
Falcon 96 S	quare Well, Angled-Bottom Plate and Lid	
353925	Non-TC-treated polystyrene, nonpyrogenic	5
Falcon 96 V	Vell Feeder Tray and Lid	
353924	Non-TC-treated polystyrene, nonpyrogenic	5

Corning® FluoroBlok™ Cell Culture Inserts

Increase cell migration and invasion assay productivity with real-time fluorescence



Corning FluoroBlok Cell Culture Inserts

Available as convenient 24 well individual inserts in two different pore sizes. Packed in individual blister packs, Corning FluoroBlok Cell Culture Inserts give you the flexibility to run from 1 to 24 samples at one time.

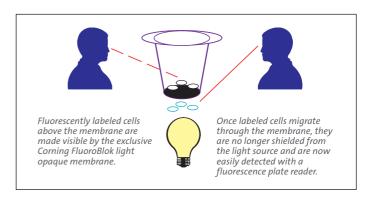
Detect cell migration and invasion in a homogeneous fluorescent assay system

Corning FluoroBlok Cell Culture Inserts are designed with a unique light-tight PET membrane that efficiently blocks the transmission of light within the range of 400-700 nm. Fluorescently labeled cells present in the top chamber of the insert are made invisible by the Corning FluoroBlok membrane. Once labeled cells migrate through the membrane, they are no longer shielded from the light source and are easily detected with a fluorescence plate reader.

- Simplify insert-based assays—Unique, light-tight PET membrane makes it easy to specifically detect fluorescently labeled cells and molecules below the insert.
- Increase insert assay productivity—Save time and labor in chemotaxis, cell migration, and invasion assays by automating your assay detection with real-time fluorescence.
- ▶ Eliminate cell culture insert manipulation—Get rapid data collection using a fluorescence microplate reader or microscope without the need for plate washing or tedious, manual cell scraping and counting. Chart migration of cells and molecules in real time without dismantling or destroying the insert.

Applications

Corning FluoroBlok effectively blocks >99.0% of the light transmission from 400-700 nm, allowing you the flexibility to choose from a variety of fluorophores for bioavailability, toxicity, chemotaxis, cell migration, and tumor invasion assays. As long as the fluorophores of choice are within the blocking range of the Corning FluoroBlok membrane, multiplex detection is also possible.

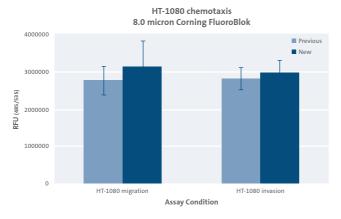


Fluorescent cells and molecules are easily detected as they migrate through Corning FluoroBlok Inserts.

Physical Specifications

Corning® FluoroBlok™ Cell Culture Inserts

6.4
0.3
17.5
0.8
0.2-0.35
0.7-0.9
2.0
8±2 x 10 ⁵
6±2 x 10 ⁴



Migration (uncoated inserts) and invasion (Corning Matrigel®-coated inserts) of HT-1080 cells. The invasion index (invasive HT-1080 cells: non-invasive 3T3 cells) was 10.9 for the previous membrane and 10.1 for the new membrane. Z' factors (a statistical characteristic of assay suitability) were previous, 0.616; new, 0.558 (previous, n=6, new, n=24).

Tips

- Corning FluoroBlok Cell Culture Inserts are also available in an automation-friendly Multiwell Insert plate format. Available in 3.0 and 8.0 µm pore sizes for manual and robotic screening of cells. Please see pages 34 and 36 for more detailed information.
- ▶ Cell labeling efficiencies will vary depending on fluorophore and cell type. For optimized conditions, titration of fluorophore is recommended.
- Visit www.corning.com/lifesciences for information on compatible and incompatible fluorophores, frequently asked questions, and application notes.

Corning® FluoroBlok™ Cell Culture Inserts **Ordering Information**

Cat. No.	Description	Qty/Pk	Qty/Cs
Corning Flu	oroBlok Cell Culture Inserts		
351151	3.0 μm inserts for 24 well plates	1	48
351152	8.0 μm inserts for 24 well plates	1	48

Falcon® Cell Culture Insert Companion Plates

Specifically designed for use with Falcon or Corning BioCoat™ Cell Culture Inserts. Tissue culture-treated polystyrene, sterile, nonpyrogenic, with lid. May be used with or without cell culture inserts.

353504	24 well plate	1	50

The following Application Note is available by searching for the literature code at www.corning.com/lifesciences.

No.	Author/Title	Lit. Code
451	Corning Life Sciences	CLS-DL-CC-077
	Compatible Fluorophores and Dyes for	
	Corning FluoroBlok Inserts and Insert Systems	

For additional references or for help with an application, please contact Corning Life Sciences Technical Support.

Related Products

Corning FluoroBlok 24 Multiwell Insert System 34

Corning® FluoroBlok™ 24 Multiwell Insert Systems

Increase cell migration and invasion assay productivity with simplified fluorescence detection and real-time analysis



Corning FluoroBlok 24 Multiwell Insert System
Each system contains an automation-friendly
24 Multiwell cell culture membrane insert suitable
for both manual and robotic screening of cells or
compounds. Handle 24 inserts simultaneously;
all 24 inserts are part of a single unit that is
compatible with Falcon 24® Well Plates and
Feeder Tray.

Corning FluoroBlok 24 Multiwell Insert Systems

The Corning FluoroBlok Insert System is made with a unique light-tight PET membrane that effectively blocks the transmission of light from 400-700 nm. Fluorescence from labeled cells or compounds present in the top chamber of the insert system is blocked from detection in the bottom chamber by the intervening dyed membrane. Once fluorescently labeled cells or compounds pass through the membrane, they are no longer shielded from the light source and are easily detected with a bottom-reading fluorescence plate reader. The wide blocking range of the Corning FluoroBlok membrane allows the flexibility to choose a variety of fluorophores for chemotaxis, cell migration, tumor cell or bacterial invasion, leukocyte extravasation, cell signaling, toxicity and permeability studies for oral bioavailability and absorption assays (e.g., Caco-2 cells).

- ▶ Save time and labor using automated fluorescence detection
- Eliminate cell insert manipulation—get rapid data collection without the need for plate washing or manual cell scraping and counting. Chart migration of cells and molecules in realtime without dismantling or destroying the insert
- Increase sample throughput—automate many commonly used membrane-based cell assays and increase the efficiency, productivity and throughput of these assays in the drug discovery process
- ▶ Handle 24 inserts simultaneously—all 24 wells are part of a single unit that is compatible with Falcon 24 well Plates and Feeder Tray
- **)** Each insert has a generous, automation-compatible sampling port. When used with Falcon 24 well plates, users can sample above and below the membrane with standard 200 μ L or 1000 μ L pipet tips or automated fluid handler tips.

References

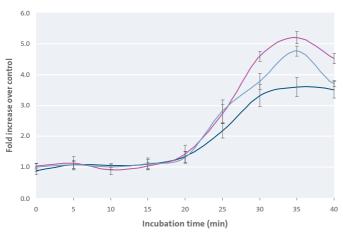
- 1. Crouch, M.F., et. al., J. Cell. Biol. 152:263 (2001).
- 2. Crouch, M.F., J. Neuro. Meth. 104:87 (2000).
- 3. Townson, J.R., et. al., J. Biol. Chem. 275:39254 (2000).
- 4. Yamakawa, S., et. al., Biol. Pharm. Bull. 10:1264 (2000).
- 5. Tang, S., et. al., J. Cell Biol. 147:1073 (1999).

5 plates

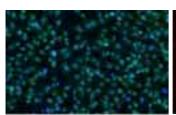
Physical Specifications

Corning® FluoroBlok™ 24 Multiwell Insert Systems

Effective Diameter of Membrane (mm)	6.5
Effective Growth Area of Membrane (cm²)	0.3
Distance from Membrane to Bottom of Well (mm)	2.0
Insert Height (mm)	18
Suggested Media Volume in Insert (μL)	300-500
Suggested Media Volume in Well (μL)	1000-1400
Effective Growth Area in 24 well Plate (cm²)	2.0
Pore Density: 3.0 µm Inserts (pores/cm²)	8±2 x 10 ⁵
Pore Density: 8.0 μm Inserts (pores/cm²)	6±2 x 10 ⁴



Run kinetic assays easily. Calcein AM labeled THP-1 cells (a monocytic cell line) were seeded at 100,000 cells/well on fibronectin coated inserts and chemotaxis to 25 nM MCP-1 (R&D Systems®) was measured using a PerkinElmer EnVision® plate reader. Peak response time in three separate assays (n=3) was 30-35 min.





Fluorescence multiplexing. Migrated HT-1080 cells post-labeled with Hoechst 33342 (blue) and Calcein AM (green) [left] or pre-labeled with $DilC_{12}(3)$ (red) [right].

Tips

- Cell labeling efficiencies will vary depending on fluorophore and cell type. For optimized conditions, titration of fluorophore is recommended.
- Visit www.corning.com/lifesciences for information on compatible and incompatible fluorophores, frequently asked questions, and application notes

Corning FluoroBlok 24 Multiwell Insert Systems Ordering Information

Cat. No.	Description	Qty/Pk
•	oroBlok 24 Multiwell Insert Systems	
with 24 we	ell Plate and Lid	
351155	3.0 μm pore size	1 plate
351156	3.0 μm pore size	5 plates
351157	8.0 μm pore size	1 plate
351158	8.0 μm pore size	5 plates

Falcon® 24 well Feeder Tray

351186

Feeder Tray with Lid

Specifically designed for use with Corning FluoroBlok 24 Multiwell Insert Systems

Cat. No.	Description	Qty/Pk	Qty/Cs
Falcon 24 v	vell Plates		
For use wit	h Corning FluoroBlok 24 Multiwe	ell Insert Systems	
353047	Standard tissue culture	1/tray	50
353226	Standard tissue culture	6/bag	36
353935	Standard tissue culture	10/RS Tray*	60
353847	Corning Primaria™	1/tray	50
351147	Non-treated surface	1/tray	50

^{*} Ready-Stack Tray

The following Application Notes are available by searching for the literature code at **www.corning.com/lifesciences**.

No.	Author/Title	Lit. Code
436	Corning Life Sciences	CLS-DL-CC-074
	Set up Guidelines and Dimensional Templates for Fluorescence Plate Readers used with Corning Fluo Insert Systems and Corning BioCoat Multiwell Inse Cell-Based Assays	
441	P. Flaherty	CLS-DL-CC-075

Screening of Anti-Metastatic Compounds Using ZsGreen1 Reef Coral FluorescentProtein (RCFP) Labeled HT-1080 Tumor Cells

442 P. Flaherty CLS-DL-CC-076

Screening of Anti-Metastatic Compounds by a
Fluorescence-Based Tumor Cell Invasion Assay

451 Corning Life Sciences CLS-DL-CC-077 Compatible Fluorophores and Dyes for Corning FluoroBlok Inserts and Insert Systems

484 J. Partridge CLS-DL-CC-054

Migration of Human Mesenchymal Stem Cells using
Corning FluoroBlok Cell Culture Inserts

497 Jeff Partridge, Stephen Rimsa, and Paula Flaherty CLS-DL-CC-042 New PET Membrane for Corning FluoroBlok 3.0 μm and 8.0 μm Pore Size Cell Culture Inserts

For additional references or for help with an application, please contact Corning Life Sciences Technical Support.

Related Products

▶ Corning FluoroBlok Individual Cell Culture Inserts 32

Corning® FluoroBlok™ 96 Multiwell Insert Systems

- A solution for automated, high throughput cell-based studies of chemotaxis, migration and invasion
- Increase cell migration and invasion assay productivity with simplified fluorescence detection and real-time analysis
- Simplification of chemotaxis, cell migration, and invasion assays
- Standard technology platform allows multiple protocols
- ▶ Homogeneous protocols for real-time kinetic readouts
- Real-time detection without dismantling or destroying the insert
- Increased sample throughput
- ▶ Eliminates need for manual cell scraping and counting
- Automation friendly
- 96 Multiwell format is compatible with commercial detectors and fluid handling instruments
- Unique fluorescence blocking membrane
- Blocks greater than 99% of the excitation and emission wavelengths of fluorophores commonly used to label cells

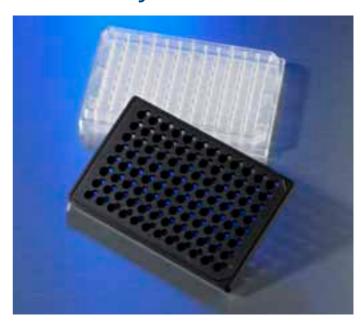
The Corning FluoroBlok 96 Multiwell Insert System is a cell culture assay platform designed with automation in mind. The one-piece insert housing and fluorescence blocking microporous membrane (available in 3.0 and 8.0 μm pore sizes) enables increased efficiency, productivity and throughput in the drug discovery process. The novel receiver plate design minimizes crosstalk between the wells; the black housing of the 96 Multiwell Insert virtually eliminates autofluorescence. These features ensure fluorescence measurements that result from your assay, not crosstalk or background signal.

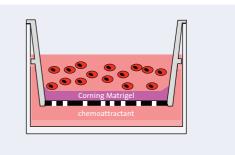
References

- 1. Dong, J., et al., EMBO 23(14):2800 (2004).
- 2. Nick, J., et al., Blood 104(13):3878 (2004).
- 3. Shen, X., et al., Exp. Cell Res, 294(2):420 (2004).
- 4. Meissner, M., et al., Circ. Res., 94(3):324 (2004).
- 5. Bockhorn, M., et al., *Cancer Res.* 64(7):2469 (2004).
- 6. Kuijpers, T.W., et al., *Blood* 103(10):3915 (2004).
- 7. Violeta, C., et al., Mol Bio Cell 16(6):2947 (2005).
- 8. Sheng-Bin P., et al., Mol Cancer Research 3:227 (2005).

Tips

- Cell labeling efficiencies will vary depending on fluorophore and cell type. For optimized conditions, titration of fluorophore is recommended.
- Visit www.corning.com/lifesciences for information on compatible and incompatible fluorophores, frequently asked questions, and application notes





Cell Migration/Invasion assays using a Corning FluoroBlok Membrane

The PET membrane is dyed to block the excitation and emission wavelengths of fluorophores commonly used to label cells, such as Calcein AM and Dil. Greater than 99% of input fluorescence in the insert is blocked by the dyed membrane. Fluorescently labeled cells stimulated by a chemoattractant, pass through the membrane. The non-migrated population does not have to be removed from the inserts prior to analysis and no further manipulation is require to quantitate the results using a bottom-reading fluorescence plate reader.

Related Products

- ▶ Corning FluoroBlok Individual Cell Culture Inserts 32

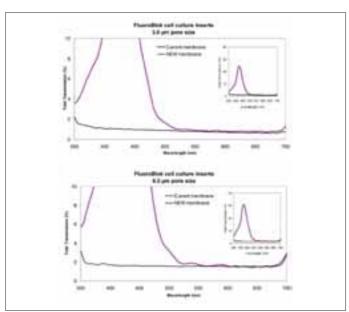
Simplify and automate cell-based assays using the Corning® FluoroBlok™ 96 Multiwell Insert System

The Corning FluoroBlok 96 Multiwell Insert System, designed with automation in mind, is well suited for high-throughput analysis of cell-based assays. Good detection sensitivity is observed even when a small number of cells is added to the wells. Variability is also low, as CV values of 10% and below are routinely observed.

The wide blocking range (400-700 nm) of the Corning FluoroBlok membrane allows the flexibility to choose from a variety of fluorophores for screening compounds in cell-based assays such as chemotaxis, cell invasion and migration, and monolayer permeability. Unlike traditional *in vitro* cell-based assays, the Corning FluoroBlok 96 Multiwell Insert System allows rapid data collection without the need for plate washing or tedious manual cell scraping and counting. Each insert has a generous automation-compatible sampling port so you may sample above and below the membrane with standard pipet tips or automated fluid handing equipment. The 96 Multiwell Insert plate format is compatible with many standard fluorescence plate readers, robots and fluid handlers.

Corning FluoroBlok 96 Multiwell Insert Systems Ordering Information

Cat. No.	Description	Qty/Pk
Corning Flu	uoroBlok 96 Multiwell Insert Systems	
351161	3.0 μm pore size	1 plate
351162	3.0 μm pore size	5 plates
351163	8.0 μm pore size	1 plate
351164	8.0 μm pore size	5 plates
Falcon 96 S	equare Well, Flat-Bottom Microplate and Lid	
353928	96 square well, flat-bottom microplate	5 plates

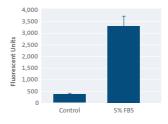


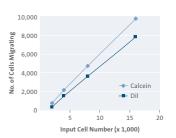
Total Transmission Spectra for 3.0 μ m (top) and 8.0 μ m (bottom) pore size Corning FluoroBlok inserts as measured by transmission spectophotometry using HunterLab UltraScan® PRO. Insert detail expanded y axis results.

Physical Specifications

Corning FluoroBlok 96 Multiwell Insert Systems

Effective Diameter of Membrane (mm)	3.2
Effective Growth Area of Membrane (cm²)	0.0804
Distance from Membrane to Bottom of Well (mm)	1.4
Insert Height (mm)	10.4
Suggested Media Volume in Insert in μL (optimum volume: 50 μL)	30-70
Suggested Media Volume in Well in μL (optimum volume: 225 μL)	200-225
Effective Growth Area in 96-Square Well Flat Bottom Plate (cm² per well)	0.64
Pore Density: 3.0 μm Inserts (pores/cm²)	8±2 x 10 ⁵
Pore Density: 8.0 μm Inserts (pores/cm²)	6±2 x 10 ⁴





HUVEC Migration through Corning FluoroBlok 96 Multiwell Inserts (3.0 µm pore size). HUVEC cells were plated at a density of 2.5x104 cells per well on the top of the insert suspended in assay medium. Into the bottom wells, assay medium (control) or chemoattractant (5% FBS in assay medium) were added and the plates were incubated at 37°C for 20 hours in a cell culture incubator. Cells were labeled with fluorescent dyes and cells that migrated to the bottom of the membrane were quantitated using a fluorescence plate reader.

HT-1080 Migration through Corning FluoroBlok 96 Multiwell Inserts (8.0 µm pore size). Relationship of migrated cells versus input cell number. The four-hour fluorescence data was converted to cells migrated using the standard curve. The relationship was linear at all cell concentrations. This data indicates that the number of pores in the small membrane area was not saturated, even at higher cell numbers.

The following Application Notes are available by searching for the literature code at **www.corning.com/lifesciences**.

No.	Author/Title	Lit. Code
450	A. Goldberger and M. Septak	CLS-DL-CC-035
	Corning FluoroBlok 96 Multiwell Insert System Enha High-Throughput Analysis of Cell-Based Assays	ances
436	Corning Life Sciences	CLS-DL-CC-074
	Set up Guidelines and Dimensional Templates for Fluorescence Plate Readers used with Corning Fluor Insert Systems and Corning BioCoat Multiwell Inser Cell-Based Assays	
451	Corning Life Sciences	CLS-DL-CC-077
	Compatible Fluorophores and Dyes for Corning Fluc Inserts and Insert Systems	proBlok
457	S. Sanyal	CLS-DL-CC-078

For additional references or for help with an application, please contact Corning Life Sciences Technical Support.

Optimized Chemotaxis Conditions for Primary Blood Monocytes or THP-1 Cells using Corning FluoroBlok

96 Multiwell Insert Plates

Falcon® Microplates Key Dimensions

96 Well Microplates		Α	В	С	D	$D^\mathtt{1}$
TC-treated Cat. No.	Non-TC-treated Cat. No.	Plate bottom length	Plate bottom width	Plate height	Well top diameter	Well bottom diameter
353072, 353916, 353936	_	127.63	85.11	14.30	6.85	6.35
353075	351172	127.48	85.52	14.30	6.85	6.35
353296	_	127.49	85.45	14.25	6.73	5.68
353376	_	127.76	85.48	14.40	6.96	6.58
353077, 353227	351177, 353910	127.76	85.59	14.30	6.85	6.35
353219, 353377	_	127.26	85.48	14.40	6.96	6.58
_	351190	127.48	85.56	14.35	6.75	6.45
_	353263	127.48	85.56	14.61	6.96	_
Section II and the Lot			_	_	_	-1

384 Well Microplates		Α	В	С	D	$D^\mathtt{1}$
Cat. No.		Plate bottom length	Plate bottom width	Plate height	Well top diameter	Well bottom diameter
353378, 353961, 353988	_	127.76	85.48	14.40	3.70	3.30
353962, 353963	_	127.76	85.48	14.40	3.70	3.30

384 Well Microplates, Small Volume	Α	В	С	D	$D^\mathtt{1}$
Cat. No.	Plate bottom length	Plate bottom width	Plate height	Well top diameter	Well bottom diameter
353379, 353380 —	127.76	85.48	7.5	3.30	1.84

1536 Well Microplates, High Base

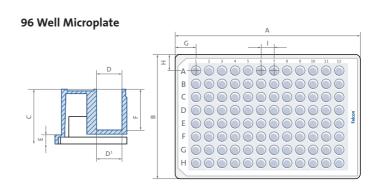
Ideal for top-reading instru	ments	Α	В	С	D	$D^\mathtt{1}$
Cat. No.		Plate bottom length	Plate bottom width	Plate height	Well top diameter	Well bottom diameter
353381, 353382	_	127.76	85.48	10.40	1.70	1.53
353383, 353384	_	127.76	85.48	10.40	1.70	1.53

1536 Well Microplates, Low Base

Ideal for bottom-reading instruments	Α	В	С	D	D ¹
Cat. No.	Plate bottom length	Plate bottom width	Plate height	Well top diameter	Well bottom diameter
353385, 353386 —	127.76	85.48	10.40	1.70	1.53

For lid dimensions, please contact Corning Life Sciences Technical Support or visit www.corning.com/lifesciences.

Dimensions in mm unless otherwise specified.



CONTINUED

CONTINUED

E	F	G	н	1						
Flange	Well depth	Left edge to A1 center	Top edge to A1 center	Well center to center	Bottom thickness (μm)	Well bottom shape	Total volume (μL)	Working volume (μL)	Growth Area (mm²)	Upper well shape
6.10	10.76	14.37	11.34	8.99	_	Flat	370	40-275	31.6	Round
6.10	10.76	14.40	14.40	8.98	_	Flat	370	40-275	31.6	Round
6.10	10.59	14.38	11.39	8.99	_	Flat	300	50-200	25.4	Round
2.50	10.90	14.38	11.24	9.00	_	Flat	392	25-340	34	Round
6.10	10.59	14.38	11.39	8.99	_	Round	320	50-250	_	Round
2.50	10.90	14.38	11.24	9.00	190	Flat	392	25-340	34	Round
2.49	11.86	14.23	11.33	8.99	_	Round	340	60-200	_	Round
2.50	10.90	14.24	11.35	9.00	_	Conical	340	100-250	_	Round

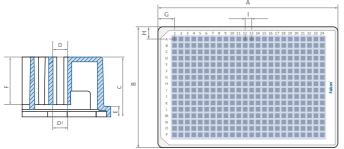
E	F	G	Н	1						
Flange	Well depth	Left edge to A1 center	Top edge to A1 center	Well center to center	Bottom thickness (μm)	Well bottom shape	Total volume (μL)	Working volume (μL)	Growth Area (mm²)	Upper well shape
2.50	11.50	12.13	8.99	4.50	_	Flat	131	15-110	10	Rounded- square
2.50	11.50	12.13	8.99	4.50	190	Flat	131	15-110	10	Rounded- square

E	F	G	Н	ı						
Flange	Well depth	Left edge to A1 center	Top edge to A1 center	Well center to center	Bottom thickness (μm)	Well bottom shape	Total volume (μL)	Working volume (μL)	Growth Area (mm²)	Upper well shape
2.00	5.50	12.13	8.99	4.50	_	Flat	28	4-25	2.7	Rounded- square

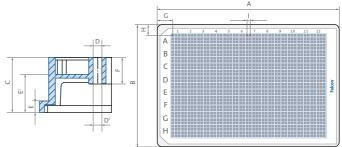
E	F	G	Н	1						
Flange	Well depth	Left edge to A1 center	Top edge to A1 center	Well center to center	Bottom thickness (μm)	Well bottom shape	Total volume (μL)	Working volume (μL)	Growth Area (mm²)	Upper well shape
E - 2.00 E ¹ - 4.70	5.00	11.01	7.87	2.25	_	Flat	12.6	3-10	2.3	Rounded- square
E - 2.00 E ¹ - 4.70	5.00	11.01	7.87	2.25	75	Flat	12.6	3-10	2.3	Rounded- square

E	F	G	Н	1						
Flange	Well depth	Left edge to A1 center	Top edge to A1 center	Well center to center	Bottom thickness (μm)	Well bottom shape	Total volume (μL)	Working volume (μL)	Growth Area (mm²)	Upper well shape
E - 2.00 E ¹ - 4.70	5.00	11.01	7.87	2.25	75	Flat	12.6	3-10	2.3	Rounded- square

384 Well Microplate



1536 Well Microplate



Working Volumes for Tissue Culture Vessels

	Volume of Media (per item)	Volume of Trypsin* (per item)	Actual Growth Area (per item)
Dishes			
35 mm x 10 mm Style	2.5-3 mL	0.2-0.3 mL	11.78 cm ²
60 mm x 15 mm Style	6-7 mL	0.5-0.6 mL	21.29 cm ²
100 mm x 20 mm Style	16-17.5 mL	1 mL	58.95 cm ²
150 mm x 25 mm Style	45-50 mL	1.5 mL	156.36 cm ²
Multiwell and Assay Plates			
6 well plate	2.5-3 mL	0.2-0.3 mL	9.6 cm ²
12 well plate	1.5-2.2 mL	0.1-0.2 mL	3.8 cm ²
24 well plate	0.8-1 mL	0.08-0.1 mL	2 cm ²
48 well plate	0.5-0.8 mL	0.05-0.08 mL	0.75 cm ²
96 well microplate	0.1-0.2 mL	0.1-0.2 mL	0.32 cm ²
384 well microplate	15-110 μL		10 mm ²
384 well microplate small volume	4-25 μL		2.7 mm ²
1536 well microplate	3-10 μL		2.3 mm ²
Flasks			
12.5 cm ²	4-5mL	0.25-0.40 mL	12.5 cm ²
25 cm ²	8-9 mL	0.50-0.80 mL	25 cm ²
75 cm ²	20-30 mL	1 mL	75 cm ²
150 cm ²	40-50 mL	2 mL	150 cm ²
175 cm ²	45-55 mL	2 mL	175 cm ²
225 cm ²	60-100 mL	4-5 mL	225 cm ²
525 cm ² (3-layer)	6-50 mL per layer	6 mL	525 cm ²
875 cm ² (5-layer)	6-50 mL per layer	10 mL	875 cm ²

^{*}Your lab protocol may call for another proteolytic enzyme.

Cell Record Worksheet

Copy this form and use it in your lab's documentation procedures.

Characterization: Name			Abl	breviation		
Morphology						
Origin						
Source	☐ Primary Cult	ture	Dat	te		
	□ ATCC	Passage	Dat	te		
	☐ Other	Passage	Dat	te		
Biosafety Level		virus/no contamination; subprim				
	☐ Class II — vi	rus/mycoplasma; clinical material,	, primate cells of tui	mor origin		
	□ Class III — F	HIV preps/T-cell lines				
Proliferation:						
Population Doubl	ing Time	hours				
Fast (requires h	nandling every 1	-2 days)				
Medium (requi	res handling ev	ery 3-4 days)				
☐ Slow (requires	handling once բ	per week)				
Split Ratio	<u>:</u>					
Routine Seeding [Density					
Handling:	t used beyond r	passage)				
	☐ Mechanical					_
Cell Kellioval	☐ Enzymatic	/ эсгариту				
	-	Trypsin				
		Other				
Call Cultura Vacca		Other				 _
Culture vessel sur		□ Non-TC-treated	☐ TC-treated		ia [™]	
Cultule Vessel sul	iace	☐ Collagen I	☐ Fibronectin	☐ Laminin	a	
Lot #		☐ Corning Matrigel® Matrix		☐ Lammin		
LOC #		Coming Matriger - Matrix	□ Other			
Media:						
			Storage Location:			
			Refrigerator	Freezer		
Туре						
Serum			%	☐ Fetal Bovine Serum (F	•	
Lot #				☐ Other		
Additives/Suppler						
(Applicable vitam	ins, growth fact	ors, antibiotics, etc.)				



Additional Falcon® Labware

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An array of products for general laboratory use

In addition to Falcon Cultureware, Corning also manufactures:

- A variety of dishes with durable construction for stable dish manipulation
- Cell strainers available in three nylon mesh pore sizes for optimal performance
- Containers that are sterile and disposable to provide secure samples
- Polypropylene plates for short- and long-term compound storage

These high-quality Falcon products deliver consistent, reliable results.

Falcon® Bacteriological Petri Dishes

- Durable construction for stable dish manipulation
- Crystal-grade, virgin polystyrene for optical clarity
- Sterilized by gamma irradiation
- Dimensions listed (diameter x height)



Falcon Bacteriological Petri Dishes Ordering Information

Cat. No.	Description	Actual Dimensions (mm)	Qty/ Pk	Qty/ Cs				
Easy-Grip	Style							
351008	35 mm x 10 mm	40.28 O.D. x 6.17	20	500				
Standard Style								
351007	60 mm x 15 mm	54.81 O.D. x 13.26	20	500				
351029	100 mm x 15 mm	87.91 O.D. x 13.72	20	500				
351058	150 mm x 15 mm	142.37 O.D. x 17.15	10	100				
Tight-fit L	Tight-fit Lid Dish							
351006	50 mm x 9 mm	50.25 O.D. x 8.26	20	500				

Tips

When using automated filling systems, a heavier-weight dish (e.g., Cat. No. 351029, 100 mm dish) prevents equipment from jamming.

Falcon® Cell Strainers and Containers





Falcon Cell Strainers

- A faster and easier alternative to gauze filtration in procedures involving dissociation of cells from either clumps or primary tissues
- ▶ Consistently obtain a more uniform single-cell suspension
- Three nylon mesh pore sizes for optimal performance in a variety of applications
- Sterilized and conveniently accessible in individual packaging
- Extended lip on strainer enables aseptic handling with forceps
- Strainers are made of a strong nylon mesh with 40, 70, or 100 μm pores that are evenly spaced for consistent results
- Molded color-coded polypropylene frame with tab enables easy handling

Features

- Sterilized by gamma irradiation
- Individually packaged

Falcon Cell Strainers Ordering Information

Cat. No.	Description	Qty/Pk	Qty/Cs
Falcon Cell St	rainers		
352340	40 μm/Blue	1	50
352350	70 μm/White	1	50
352360	100 μm/Yellow	1	50

Tips

A special sterile cell strainer assembly designed for cell sorting devices is listed on page 44. It contains a 35-micron nylon mesh strainer that is an integral part of the cap to a 5 mL polystyrene tube.

Falcon Containers

- Sterile, disposable polypropylene containers provide secure sample containment
- Available in 4½ oz. (110 mL) and 8 oz. (220 mL) sizes both with and without matching lids
- Feature molded-in graduations for easy measurements
- Graduated in ounces and milliliters to provide convenient, single-use, timesaving containers for collection, transportation, and storage of a wide variety of specimens
- Inert and chemically resistant to commonly used laboratory reagents at room temperature

Features

- Sterilized by gamma irradiation
- ▶ 4¹/₄ oz. graduations from ¹/₂ oz. to 4¹/₂ oz. in ¹/₄ oz. increments
 and from 20 mL to 110 mL in 10 mL increments
- ▶ 8 oz. size graduated from ¹/₄ oz. to 8 oz. in ¹/₄ oz. increments and from 20 mL to 220 mL in 10 mL increments

Falcon Containers Ordering Information

Cat. No.	Description	Qty/Pk	Qty/Cs
Falcon Conta	iners		
354013	$4^{1}/_{2}$ oz. (110 mL) with Lid	1	100
354014	$4^{1}/_{2}$ oz. (110 mL) without Lid	20	500
354015	8 oz. (220 mL) with Lid	1	100
354020	8 oz. (220 mL) without Lid	20	500
354017	Lid for both sizes	20	500

Related Products

Falcon Round-Bottom Tube	
with Cell Strainer Cap	56
Falcon 50 ml Conical Tubes.	58

Falcon® Library Storage Plates

- ▶ 96 well library storage plates with different well shapes
- ▶ Made from virgin polypropylene resin



Falcon 96 well Polypropylene Library Storage Plates

The Falcon 96 well Polypropylene Library Storage Plate is convenient for compound storage

- Exceedingly rigid and flat plate for consistent automated handling
- ▶ Plate withstands repeated freeze-thaws down to -20°C
-) Low retention polypropylene and round-well design give low residual volumes after pipetting (<0.1 $\mu L)$
- ▶ Raised well edges and flatness for heat or adhesive sealing
- In addition to the round-bottom Falcon 96 well Library Storage Plate, V-bottom formats are also available.

Falcon Library Storage Plates Ordering Information

Cat. No.	Description	Total Volume (μL)	Well Shape	Sterile	Notch	Qty/Pk	Qty/Cs
Falcon 9	6 well Polypropylene Library Storage Plates						
351190	96 well Library Storage Plate	340	Round	No	H12	25	100
353263	96 well Library Storage Plate	340	V-bottom	No	A1-H1	25	100



Falcon[®] Pipets and Pipet Controller

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Aspirating Pipets51
Transfer Pipets
Pipet Controller
Replacement Parts

The perfect pipet in a perfect package

Falcon Pipets, first in quality and first in innovation, are manufactured at our ISO 9001-certified facility in a state-of-the-art, high-performance work environment. Dedicated product teams use advanced technologies and techniques, combined with rigorous quality control procedures to ensure the integrity of every pipet.

Each pipet component is made of the highest quality polystyrene resin. Process control and attention to detail guarantee the finest quality product. A critical volumetrics test verifies the accuracy of each pipet by measuring the delivered volume.

The final result is consistently high-quality pipets that provide precise and accurate liquid handling.

Falcon® Serological Pipets

- Individually wrapped polystyrene pipets available in paper-plastic or all-plastic thermoform packaging
- Exceptionally crisp, dark, easy-to-read printed graduations
- Graduation alignment system brings graduations to view quickly
- Available in bulk packaging
- Color-coded pipets facilitate correct size selection



Falcon Serological Pipets range in size from 1 mL to 100 mL.

Sterile pipet packaging

Customer demand for a sterile product has shaped the design of all Falcon brand products, especially serological pipets and pipet packaging. In the thermoform packaging process, heavygauge plastic material is heated and drawn to form a pouch. The pipet is placed in the pouch, and the pouch is sealed. Depending on user preference, the top web may be either paper or our Corning® Advantage™ all-plastic material. This packaging ensures Falcon Pipets are delivered to you contamination-free.

Corning Advantage Pipet packaging for customers who prefer an all-plastic pipet wrapper

The Corning Advantage all-plastic individual pipet package offers:

- Reduced static cling
- ▶ Easy opening options: peel-open and pop-through
- Low particulates
- Complete recyclability

Falcon 100 mL pipet

▶ The Falcon 100 mL pipet has up to a 115 mL graduated capacity, with total holding capacity of 125 mL—the highest currently available. Its innovative, stepped design allows it to fit easily into most media bottles and tissue culture vessels.

Falcon individually wrapped pipets

- ▶ Falcon individually wrapped pipets are available in two thermoformed package styles: the popular paper-plastic wrap and the Corning Advantage all-plastic wrap.
- Falcon 1 mL and 2 mL individually wrapped pipets are provided in convenient canister boxes to make transfer and storage easier. Falcon bulk packaged pipets come in sturdy polyethylene bags.

Falcon® Individually Wrapped Serological Pipets

- Polystyrene, disposable pipets for tissue culture, bacteriological, and research applications
- ▶ Sterilized by gamma irradiation
- Noncytotoxic, nonpyrogenicity tested to less than 0.1 EU/mL
- Negative graduations for extra capacity
- ▶ Reverse graduations (except 1 mL)
- ▶ Color-coded package and markings for ease of identification
- Polyester plug to help prevent overfill
- ▶ Accurate +/- 2% at full volume (excluding 1 and 2 mL)

Falcon Individually Wrapped Serological Pipets Ordering Information

Paper-Plastic Thermoform Cat. No.	Corning® Advantage™ All-Plastic Cat. No.	Size	Color	Increments	Overfill Capacity	Qty/Pk	Qty/Cs
357521	356521	1 mL	Yellow 🛑	1/100	0.4 mL	100	1000
357507	356507	2 mL	Green 🛑	1/100	0.8 mL	100	1000
357543	356543	5 mL	Blue 🔵	1/10	2.5 mL	50	200
357551	356551	10 mL	Red 🛑	1/10	3.0 mL	50	200
357525	356525	25 mL, Space Saver	Purple 🛑	0.25	7.0 mL	50	200
357535	356535	25 mL, Extended	Purple 🛑	0.50	11.0 mL	50	200
357550	356550	50 mL	Black	1.0	10.0 mL	25	100
_	357600	100 mL	Black	1.0	15.0 mL	5	50

Falcon® Bulk-Packaged Serological Pipets

- Polystyrene, disposable pipets for tissue culture, bacteriological, and research applications
- Sterilized by gamma irradiation
- Noncytotoxic, nonpyrogenicity tested to less than 0.1 EU/mL
- Negative graduations for extra capacity
- Reverse graduations (except 1 mL)
- ▶ Color-coded package and markings for ease of identification
- Polyester plug to help prevent overfill
- ▶ Accurate +/- 2% at full volume (excluding 1 and 2 mL)



Convenient pipet graduation alignment system—exclusively from Corning.

Graduation alignment system

The pipet graduation alignment system is a fast and simple way to bring graduations to your line of sight. Simply pop open or peel back the top of the pipet package and line up the pipetter before completely removing the pipet from its wrapping. When you remove the pipet from its package, the graduations should face you every time.

Falcon Bulk-Packaged Serological Pipets Ordering Information

Paper-Plastic Thermoform				Overfill		
Cat. No.	Size	Color	Increments	Capacity	Qty/Pk	Qty/Cs
357506	1 mL	Yellow	1/100	0.4 mL	25	1000
357508	2 mL	Green	1/100	0.8 mL	25	1000
357529	5 mL	Blue	1/10	2.5 mL	25	500
357530	10 mL	Red	1/10	3.0 mL	25	500
357515	25 mL, Space Saver	Purple	0.25	7.0 mL	20	200

Falcon® Aspirating Pipets

- ▶ Sterile, polystyrene, non-plugged, non-graduated pipets
- ▶ Safer alternative to glass Pasteur pipets
- ▶ Can be used for all vacuum-aspirating procedures
- Noncytotoxic, nonpyrogenic tested to less than 0.1 EU/mL
- ▶ Individually packaged in thermoformed paper-plastic wrap to ensure sterile presentation



Falcon Aspirating Pipets Ordering Information

Cat. No.	Size	Qty/Pk	Qty/Cs
Falcon Aspirating Pipets			
357558	2 mL	50	200
357501	5 mL	50	200

Falcon® Transfer Pipets

- ▶ Highly durable, one-piece polyethylene design
- One squeeze draws 3 mL into this 6-inch transfer pipet
- ▶ Small tip ensures consistent reproduction of drop size
- ▶ Graduated at 1 mL and 2 mL marks



Falcon Transfer Pipets Ordering Information

Cat. No. Description		Qty/Pk	Qty/Cs
Falcon Transfer Pipets			
357575	Sterile	1	500
357524	Non-sterile	500	1000

Falcon® Pipet Controller

- ▶ Ergonomic design for exceptional comfort
- LCD display for continuous visualization of speed, modes, and battery status
- ▶ Easy access to the battery compartment
- Easy maintenance



Nosepiece with autoclavable pipet holder and filter

Ergonomically positioned finger triggers provide comfortable grip

Falcon Pipet Controller

The light, ergonomic, motorized pipet controller is designed for use with glass and plastic serological pipets from 0.5 to 100 mL volume ranges. Conveniently positioned switches change operating modes and speeds quickly to handle different liquid volumes and viscosities. Aspirating and dispensing speed is controlled through the finger triggers. When fully charged, the batteries enable up to 8 hours of continuous use. The large LCD display clearly indicates battery status, pipetting mode and speed.

The Falcon Pipet Controller is supplied with a two-position charging stand, a universal battery charger, and three batteries. Two 0.2 μ m and two 0.45 μ m hydrophobic polytetrafluoroethylene (PTFE) filters are supplied with the pipet controller. Additional filters are available as standard accessories. The filters, pipet holder, and nosepiece are autoclavable.



Two-position Charging Stand

Falcon Pipet Controller Ordering Information

Cat. No.	Description	Qty
Falcon Pi	pet Controller	
357469	Standard version with two 0.2 µm filters and two 0.45 µm filters, 2-position charging stand, universal power supply, and set of 3 batteries	1
357470	EUR version with two 0.2 μm filters and two 0.45 μm filters, 2-position charging stand, universal power supply and set of 3 batteries	1
357471U	S version with two 0.2 µm filters and two 0.45 µm filters, 2-position charging stand, universal power supply and set of 3 batteries	1
Falcon Pi	pet Controller Accessories	
357472	Hydrophobic PTFE filter (0.2 μm), set of 5	1
357473	Hydrophobic PTFE filter (0.45 μm), set of 5	1
357474	Silicone pipet holder	1
357486	Battery (set of 3)	1



Falcon® Tubes

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Test the sample, not the tube

Your life sciences research demands the most stable and controlled environment possible for the analysis of biological and chemical samples. At Corning Life Sciences, we manufacture our Falcon Conical and Round-Bottom Tubes from advanced bioanalytical-grade resins. Our polymer selection process includes extensive testing to ensure that the polymer does not leach unwanted substances and provides for low protein binding. Falcon Tubes and our unique medical-style packaging provide unsurpassed convenience and consistency.

Falcon® Round-Bottom Tubes

- Widely used and referenced in laboratory protocols
- Dual position snap-cap prevents sample loss with ease of handling
- ▶ Sterile, nonpyrogenicity tested to less than 0.1 EU/mL





Sterile tube with cell-strainer cap Designed for flow cytometry applications, the 12 x 75 mm tube with cell strainer cap (Cat. No. 352235) offers a convenient way to prepare laboratory samples. A 35 µm nylon mesh is incorporated into the tube cap, which can be used to collect the dissociated sample for downstream processing in instruments.



polypropylene tubes
Falcon brand 14 mL polypropylene
tubes feature white printed graduations rather than traditional
molded-in graduations. Easy-toread markings and a solvent-resistant writing patch provide further
convenience in use.

White graduations on 14 mL

The foundation for consistent research results

- ▶ Provide reliable containment of laboratory fluid samples
- ▶ Widely referenced in published procedures and protocols
- Polypropylene tubes are best suited for applications requiring greater thermal and chemical stability
- Polystyrene tubes are best suited for procedures requiring high optical clarity
- Dual-position snap caps, heavier gauge walls, and unique construction provide a secure, positive seal
- ▶ Medical-style packaging materials

Tips

Tubes with more consistent inner tolerance, such as the Falcon 5 mL round-bottom tubes, reduce maintenance and wear of the Bal Seal O Ring resulting in less down time and costly repairs of valuable instruments.

Falcon Round-Bottom Tubes Ordering Information

Polystyrene Round-Bottom Tubes

- 1400 RCF rating*
- Tube dimensions and volumes are approximate

Cat. No.	Size (mm)	Volume (mL)	Сар	Qty/Pk	Qty/Cs
352003	12 x 75	5	Snap	1	500
352058	12 x 75	5	Snap	25	500
352054	12 x 75	5	Snap	125	1000
352052	12 x 75	5	None	125	1000
352008	12 x 75	5	None (nonsterile)	1000	1000
352235	12 x 75	5	Cell strainer, sterile	125	1000
352027	13 x 100	8	Screw	125	1000
352001	17 x 100	14	Snap	1	500
352057	17 x 100	14	Snap	25	500
352051	17 x 100	14	Snap	125	1000
352017	17 x 100	14	None	125	1000
				_	
352037	16 x 125	16	Screw	1	500
352025	16 x 125	16	Screw	125	1000
352045	16 x 150	19	Screw	1	500

^{*} RCF claims refer to Relative Centrifugal Force measured in g-force for materials with a specific gravity of 1.0, used in an appropriate rotor with correct cushion and safety precautions. Tubes used with organic solvents at temperatures below 0°C may have lower RCF ratings.

Tips

- ▶ Racks for 15 mL Falcon Conical Tubes are also ideal for upright storage of Falcon 17 x 100 mm Round-Bottom Tubes.
- ▶ Expanded polystyrene racks are not recommended for storage below 0°C.

High-clarity Polypropylene Round-Bottom Tubes

- 3000 RCF rating*
- 17 x 100 mm tubes have printed graduations and white writing patch
- Tube dimensions and volumes are approximate

Cat. No.	Size (mm)	Volume (mL)	Сар	Qty/Pk	Qty/Cs
352063	12 x 75	5	Snap	25	500
352053	12 x 75	5	None	125	1000
352002	12 x 75	5	None (nonsterile)	100	1000
352006	17 x 100, printed	14	Snap	1	500
352059	17 x 100, printed	14	Snap	25	500
352018	17 x 100 printed	14	None	125	1000

Polyethelyne Snap Caps

- Dual position snap cap, offering vented as well as fully closed options
- Sterilized by gamma irradiation
- For use with both polystyrene and polypropylene tubes

Cat. No.	Description	Qty/Pk	Qty/Cs
352032	For 12 x 75 mm tubes	500	2000

Related Products

Falcon® Conical Tubes

- Meet bioanalytical-grade requirements and provide unsurpassed performance in critical research applications
- Exceptionally strong—Industry leading centrifugation rating of 16,000 RCF (50 mL polypropylene)
- Unique double threaded cap design reducing cross threading and leakage
- ▶ Easy-to-read graduations
- Consistent biological and physical properties
- Ideal for long-term cryogenic storage of specimens at -80°C (15 to 225 mL polypropylene tubes)



Falcon high-clarity conical tubes feature blue printing: dark blue graduations to help avoid eye strain, and a white writing patch that allows sample identification. For large fluid samples, use convenient 175 mL and 225 mL sizes. Made of durable polypropylene, these tubes allow for efficient large-scale laboratory centrifugation.

The most dependable tube in the lab

Falcon Conical Tubes are easy-to-use, high-quality tools to protect your precious samples. State-of-the-art design and manufacturing create tubes engineered to provide high strength, wide temperature stability, and to perform in your critical applications. They will protect your valuable samples during centrifugation, vortexing, and long term storage in the freezer. To meet this intense challenge, Falcon tubes are designed for:

- ▶ High strength: State-of-the-art mold design, coupled with advanced resin selection, create tube walls that are engineered to perform under high-stress situations.
- Nonpyrogenicity: Tested to less than 0.1 EU/mL.

- Nontoxicity: Resins are selected via an intense array of U.S. Pharmacopoeia (USP) toxicity tests.
- Low protein binding: Corning engineers and scientists are continually searching for materials and processes that minimize labware-induced interference, such as protein binding.
- Quality packaging: Falcon Tubes, in addition to offering bioanalytical-grade performance, use medical-style packaging to better assure sterile presentation. The conical tubes are packaged in convenient reusable racks or compact environmentally-friendly bulk packs.

Falcon Conical Tubes Ordering Information

15 mL Capacity Tubes

- Approximate dimensions: 17 mm O.D.; 120 mm length
- Sterilized by gamma irradiation, noncytotoxic and nonpyrogenic
- Dark blue printed graduations and white writing patch
- Polyethylene dome-seal screw cap offers positive seal over full circumference
- Rack can be separated into two sections

Cat. No.	Description	RCF Rating*	Qty/Pk	Qty/Cs
352196	15 mL/High Clarity Polypropylene, with free empty rack	12000	50	500
352096	15 mL/High Clarity Polypropylene	12000	50	500
352097	15 mL/High Clarity Polypropylene, in rack	12000	50	500
352095	15 mL/Polystyrene	1800	50	500
352099	15 mL/Polystyrene, in rack	1800	50	500

50 mL Capacity Tubes

- Approximate dimensions: 30 mm O.D.; 115 mm length
- Sterilized by gamma irradiation, noncytotoxic and nonpyrogenic
- · Dark blue printed graduations and white writing patch
- Polyethylene flat-top screw cap allows one hand manipulation and provides a level writing area

Cat. No.	Description	RCF Rating*	Qty/Pk	Qty/Cs
352070	50 mL/High Clarity Polypropylene	16000	25	500
352098	50 mL/High Clarity Polypropylene, in rack	16000	25	500
358206	Screw caps for 50 mL tubes	_	50	1000

175 mL and 225 mL Capacity Tubes

- 175 mL capacity: approximate dimensions are 61 mm O.D.; 118 mm length
- 225 mL capacity: approximate dimensions are 61 mm O.D.; 137 mm length
- Sterilized by gamma irradiation
- · Molded graduations
- · Polyethylene plug-seal screw cap

Cat. No.	Description	RCF Rating*	Qty/Pk	Qty/Cs
352076	175 mL/Polypropylene	7500	8	48
352075	225 mL/Polypropylene	7500	8	48

Accessories for 175 mL and 225 mL Capacity Tubes

Cat. No.	Description	Qty/Cs
352090	Cushions and extractor for Cat. Nos. 352076, 352075, nonsterile	8

^{*} RCF claims refer to Relative Centrifugal Force measured in g-force for materials with a specific gravity of 1.0, used in an appropriate rotor with correct cushion and safety precautions. Tubes used with organic solvents at temperatures below 0°C may have lower RCF ratings.



The 50 mL conical tubes are available in either bulk- or rack-packaged configurations. For the convenience of oriented, sterile product presentation, choose the recyclable, expanded polystyrene foam rack option. For applications that do not require the convenience of tubes in racks, choose the bulk-package option with 40% less packaging material.

Tips

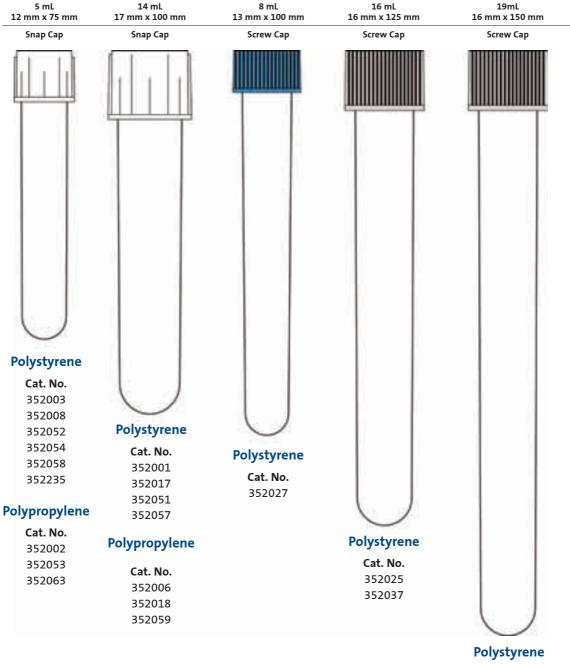
- ▶ When marking tubes, black ink Sharpie® pens are the most resistant to alcohol. Other colors tend to smudge.
- Racks for 15 and 50 mL Falcon Conical Tubes are ideal for upright storage.
- ▶ Expanded polystyrene racks are not recommended for storage below 0°C.

Related Products

Falcon Cell Strainers	ŀ5
Falcon Round-Bottom Tubes 5	6

Falcon® Tube Size Identification Chart

For accurate reordering, compare your tube to these actual-size drawings



Cat. No. 352045

Falcon® Tube Chemical Resistance Chart

	Polypropylene		Polystyro	ene
	Room Temp.	50-60°C	Room Temp.	50-60°C
Acetaldehyde		Х	Х	Х
Acetic Acid, 5%				
Acetic Acid, 50%				
Acetonen			X	Х
Acetonitrile		Х	X	Х
Ammonium Acetate, Saturated				
Ammonium Hydroxide, 5%				
Ammonium Hydroxide, 30%				
n-Butyl Alcohol				
Chloroform	Х	Х	X	Х
Chromic Acid, 50%				
Cyclohexane		Х	Х	Х
Dimethylsulfoxide				
Ether	X	Х	Χ	X
Ethyl Alcohol, 50%				
Ethyl Alcohol, Absolute				X
Ethylene Glycol				
Formaldehyde, 10%				X
Formaldehyde, 40%			Χ	X
Formic Acid, 5%				
Formic Acid, 50%				
Glutaraldehyde				
Glycerine				
Glycerol				
Hydrochloric Acid, 1-5%				
Hydrochloric Acid, 35%				
Hydrogen Peroxide, 5%				
Hydrogen Peroxide, 30%				
Isobutanol				
Isopropanol				
Methyl Alcohol Methanol				Х
Methyl Ethyl Ketone			Х	Х
Nitric Acid, 1-10%				Х
Nitric Acid, 70%	Х	Х	Х	Х
Phenol, Liquid	Х	Х	Χ	Х
Phosphoric Acid, 1-5%				
Phosphoric Acid, 85%				
Picric Acid	Χ	Χ		
Pine Oil			Х	X
Potassium Hydroxide, 1%				
Potassium Hydroxide, Concentrated				
Sodium Hydroxide, 50% to Saturated				
Sulfuric Acid, 10%				
Sulfuric Acid, 98% Concentrated		Х	Х	X
Trichloroacetic Acid		Х		X
Tris Buffer, Solution				X

Compatibility with chemical:

■■■ Excellent

■■ Good

■ Fair

X Not Recommended for continual use

Characteristics of Falcon® Plasticware

Material	Properties (Re: Lab Use)	Clarity	Autoclave Results	Heat Distortion Point	Burning Rate
Polystyrene (Styrene)	Biologically inert, hard, excel- lent optical qualities	Clear	Melts	147-175°F 64-80°C	Slow
High-Impact Polystyrene	Rubber content gives improved strength to styrene	Opaque	Melts	147-195°F 64-90°C	Slow
Styrene Acrylonitrile	Improved strength over polystyrene	Clear	Melts	195-200°F 90-93°C	Slow
Polyethylene (High-Density)	Biologically inert, high chemical resistance	Opaque	Withstands several cycles	250°F 121°C	Slow
Polyethylene (Low-Density)	Biologically inert, high chemical resistance	Opaque	Melts	105-120°F 40-49°C	Slow
Polypropylene	Biologically inert, high chemical resistance, exceptional toughness	Translucent	Withstands several cycles	250°F 121°C	Slow
Polycarbonate	Clear, very tough, inert, high temperature resistance	Clear	ОК	280-290°F 138-143°C	Self-extinguishing
Methyl, Methacrylate (Plexiglass, Lucite)	Finest optical qualities, easily fabricated	Clear	Melts	160-190°F 71-88°C	Slow
Cellulose Acetate (Acetate)	Clear, tough, somewhat flexible	Clear	Melts	110-194°F 43-90°C	Slow
Nylon	Tough, heat resistant, machineable, high moisture vapor transmission	Opaque	ОК	300-356°F 150-180°C	Self-extinguishing
P.T.F.E.	Biologically and chemically inert, high heat resistant, slippery surface	Opaque	OK	250°F 121°C	None
P.V.C. (Plasticized)	Inert, tough, clear, high chemical resistance	Clear	Melts	110-175°F 43-80°C	Self-extinguishing
Vinyl-Chloride (Goen, Saran)	Clear, popular as film material	Clear	Melts	130-150°F 54-66°C	Self-extinguishing
Cellulose Nitrate (Celluloid)	Tough, fairly clear	Clear	Melts	140-160°F 60-71°C	Fast (explosive)
Polypropylene Film	Clear film material	Clear	ОК	260°F 126°C	Slow
Thermosetting Polyester Films (Mylar)	Clear film material	Clear	OK	258°F 121°C	Self-extinguishing

The following are Tradenames: Plexiglass (Rohm & Hass Co.), Lucite & Mylar (E.I. duPont & Co.), Geon (B. F. Goodrich Chem. Co.), Celluloid (Mazzucchelli Celluloide S.p.A.).

Portions of this table courtesy of Modern Plastics Encyclopedia. Most data are from tests by ASTM methods. Tables show averages or ranges. Many properties vary with manufacturer, formulation, and testing laboratory.

^{*}Obtained from a table that lists gas permeability in cc/100 sq. in. per 24 hrs/mil.

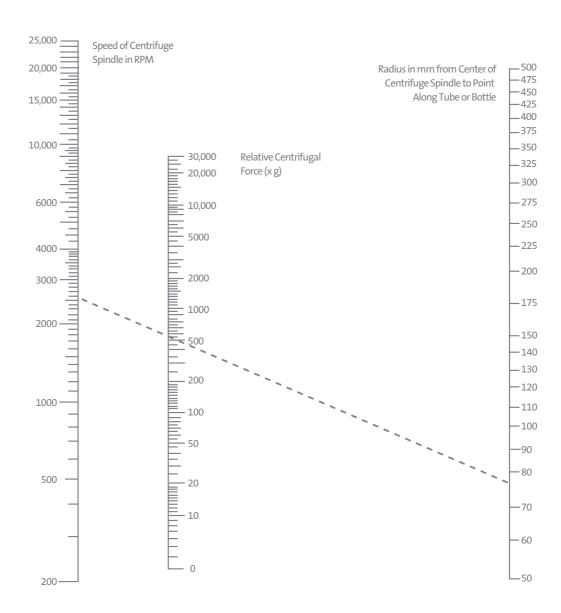
		,	(Koutine Storage o	r Contact Periods)	Gas Permeat	oility of Thin-V	Wall Products
Weak Acids	Strong Acids	Weak Alkalies	Strong Alkalies	Organic Solvents	02	N ₂	со
None	Oxidizing acids attack	None	None	Soluble in aromatic chlori- nated hydrocarbons	Low	Very low	High
None	Oxidizing acids attack	None	None	Soluble in aromatic chlori- nated hydrocarbons	_	_	-
None	Oxidizing acids attack	None	None	Soluble-ketones, esters, and chlorinated hydrocarbons	Very low	Very low	Low
None	Oxidizing acids attack	None	None	Resistant below 80°C	High	Low	Very high
None	Oxidizing acids attack	None	None	Resistant below 60°C	High	Low	Very high
None	Oxidizing acids attack	None	None	Resistant below 175°C	High	Low	Very high
None	None	None	Slowly attacked	Soluble in chlorinated hydrocarbons—part soluble in aromatics	Very low	Very low	Low
Slight	Oxidizing acids attack	Slight	Slight	Soluble in ketones, esters, aromatic hydrocarbons	Very high	Very low	_
Slight	Decomposes	Slight	Decomposes	Softens in alcohol, Soluble in ketones, esters	Very low	Very low	High
None	Attacked	None	None	Resistant	Very low	Very low	_
None	None	None	None	Resistant	_	-	_
None	None	None	None	Soluble in ketones, esters	Low	_	High
None	None	None	None	Slightly resistant to hydro- carbons, ketones, etc.	Low	_	High
Slight	Decomposes	Slight	Decomposes	Soluble in ketones and esters, softens in alcohol, slightly affected by hydrocarbons	-	_	-
None	Oxidizing acids attack	None	None	Resistant below 175°C	High	Low	Very high
None	None	None	None	Good to excellent	Very low	Very low	Very low

Rotor/Adapter Selection Guide

Centrifuge	Rotor Name	Rotor Type*	Adapter for Falcon [®] 15 mL Conical Tube	Adapter for Falcon 50 mL Conical Tube
Beckman Coulter, In	nc.			
GS-15/R	S4180 C0650 C1015	SW FA FA	361230 — Dedicated 15 mL rotor	361234 Dedicated 50 mL rotor —
TJ-6/R	TH-4	SW	339276 359487, aerosol, set of 2 358991, aerosol, set of 4	339273 359488, aerosol, set of 2 358992, aerosol, set of 4
GS-6/R/K/KR	GH-3.8	SW	359151, set of 4 359472, set of 2 359487, aerosol, set of 2 358991, aerosol, set of 4	359154, set of 4 359475, set of 2 359488, aerosol, set of 2 358992, aerosol, set of 4
Avanti 30	C0650 C1015	FA FA	— Dedicated 15 mL rotor	Dedicated 50 mL rotor —
J6 Large Cap.	JS-3.0, JS-4.0, JS-4.2, JS-5.2	SW	359151, set of 4 359472, set of 2	345386
J2 Series or Avanti J-25	JS-7.5 JS-4.3	SW SW	356964, 4-place adapter 359151, set of 4 359472, set of 2 359487, aerosol, set of 2	356966, 1-place adapter 362213 (set of buckets), 3-place 359154, set of 4 359475, set of 2 359488, aerosol, set of 2
	JA-10, JLA-10.500 JA-12 JA-14 JA-18	FA FA FA FA	358991, aerosol, set of 4 356960, 4-place adapter — 356964, 4-place adapter 356962, 1 tube per adapter	358992, aerosol, set of 4 356965, 1-place adapter Dedicated 50 mL rotor 356966, 1-place adapter 356963, 1 tube per adapter
Sorvall, Inc.				
TC-6	H-400	SW	78033	78035
GLC-2B/3 or RC-3	M SP/X HL-4 w/omnicarrier HL-4 w/carrier 00624 HL-4 w/carrier 00634	FA FA SW SW SW	03667 00363 00565 — 00363	— None required 00648 00630 —
RT-6000B/D or T-6000B/D	A-384 A-500 A/S-400 H-1000B	FA FA FA SW	None required 00363 11148 00884 or 11018 with 11152	— None required None required 00438 or 11148 with 11152
RT-7	RTH-250 RTH-750 SL-50T	SW SW FA	00884 or 11018 with 11152 00447 00402	00438 or 11148 with 11152 00436-3 places or 00445-5 places —
RC-3B/C or RC-3B/C Plus	LA/S-400 H-2000B HG-4L, H-4000, H-6000A	FA SW SW	11148 00884 or 11018 with 11152 00892	None required 00438 or 11148 with 11152 00436-3 places or 00445-5 places
Super T-21	SL-50T, SL-50RT SL-250T STH-750	FA FA SW	00402 00456 00447	
RC-5B/C or RC-5BC/Plus or RC-24 or RC-26	GSA, SLA-1000, SLA-1500 SLA-600TC GS-3, SLA-3000 SH-3000 HS-4 w/carrier 00479 HS-4 w/carrier 00481 HS-4 w/carrier 00480	FA FA FA SW SW SW SW	00456 74232 00456 and 00614 00447 00456 None required	03072 None required 00614 and 03072 00436-3 places or 00445-5 places 03072 None required 00363
RC-28S	SL-250T F-16/250	FA FA	00456 00456	03072 03072

^{*} SW: Swinging bucket; FA: Fixed angle

Nomogram for Computing Relative Centrifugal Force



To calculate the RCF value at any point along the tube or bottle, measure the radius, in mm, from the center of the centrifuge spindle to the particular point. Draw a line from the radius value on the right-hand column to the appropriate centrifuge speed on the left-hand column. The RCF value is the point where the line crosses the center column. The nomogram is based on the formula:

 $RCF = (11/17 \times 10^{-7}) RN^2$

where:

R = Radius in mm from centrifuge spindle to point in tube bottom

N = Speed of spindle in RPM

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Notes

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