

Falcon® Cell Culture Flasks

- ▶ Vacuum-gas plasma tissue culture treatment provides consistent cell attachment, spreading, and growth
- ▶ 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 cm² Flask, 25 mL					
353018	Standard TC*	Canted	Plug Seal	10	100
353107	Standard TC	Canted	Vented	10	100
25 cm² 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 cm² 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 cm² 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 cm² Flask, 600 mL					
355000	Standard TC	Canted	Plug Seal	5	40
355001	Standard TC	Canted	Vented	5	40
175 cm² Flask, 750 mL					
353028	Standard TC	Straight	Plug Seal	5	40
353112	Standard TC	Straight	Vented	5	40
Bar coded 175 cm² Flask, 750 mL					
<i>Compatible with robotic cultivation systems, e.g., The Automation Partnership's Select™</i>					
353118	Standard TC	Straight	Vented	5	40
225 cm² 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 cm² Multi-Flask 3-Layer, up to 50 mL per layer**					
353143	Standard TC	-	Vented	2	12
875 cm² Multi-Flask 5-Layer, up to 50 mL per layer**					
353144	Standard TC	-	Vented	1	8

*TC = Tissue Culture

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

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.

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.

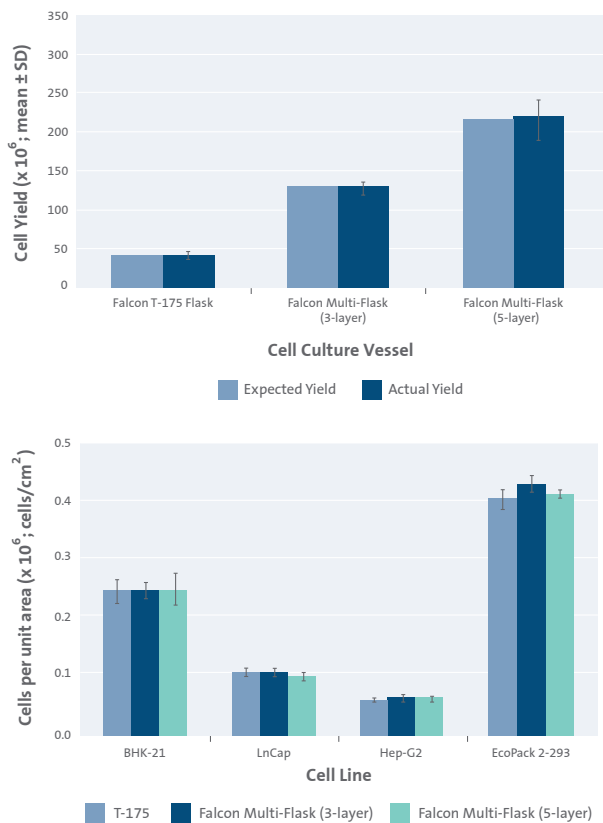
- ▶ Pipet access allows to aspirate to replenish media and recover cells without pouring
- ▶ The mixing port enables rapid mixing inside the vessel and allows to add cell suspension, transfection, or other reagents directly to the flask. The port also enables uniform distribution of media and cells to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

More consistent cell growth

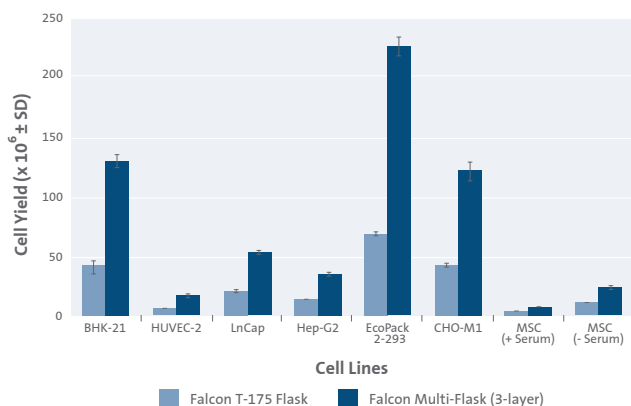
Falcon Multi-Flasks' even distribution of media, proven vacuum gas-plasma tissue culture surface treatment, and effective gas exchange all combine to provide an optimal cell culture environment. The result is high cell yield and a homogeneous cell population.



Predictable scale-up



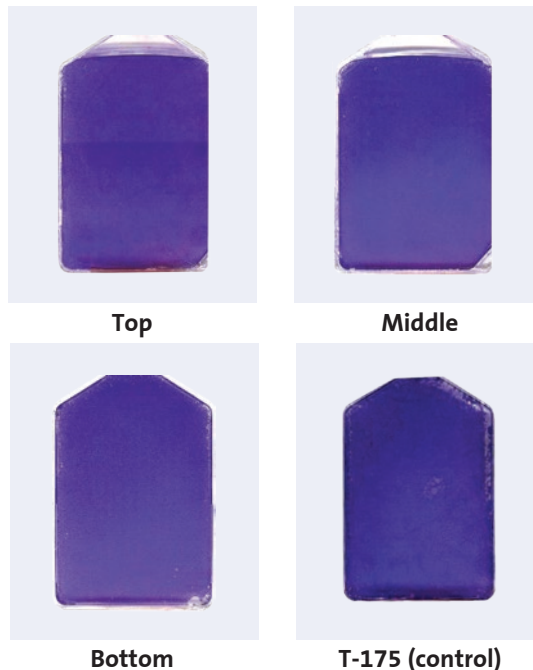
Three and five times the number of BHK-21 cells were grown and recovered from 3- and 5-layer Falcon® Multi-Flasks compared to T-175 flasks. Expected yield (left panel) was determined using mean cell yield from control T-175 flasks multiplied by three and five times for the 3- and 5-layer Falcon Multi-Flasks, 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 (cm ²)	Cap Style	Qty/Cs
Falcon Multi-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

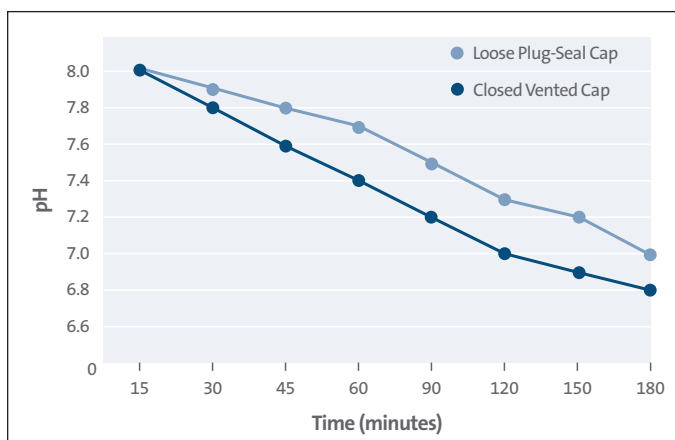
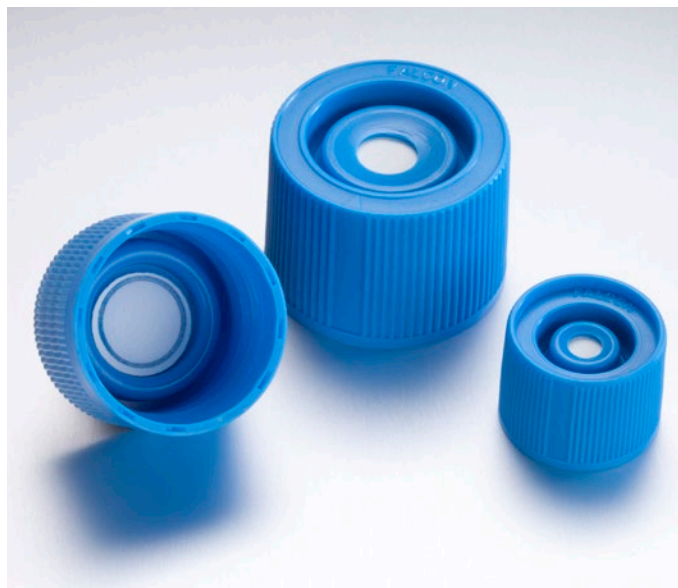
Falcon polyethylene plug seal caps provide a liquid-tight seal when closed and an open-incubation position for reliable gas exchange when partially opened. A reference bar on the outside of the cap is aligned with the “Falcon” on the flask for precise open-incubation conditions.

Convenient vented caps

- ▶ Ensure consistent gas exchange and minimize contamination
- ▶ Polyethylene caps with an integral, hydrophobic 0.2 µm micro-porous 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	Qty/Cs
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.