

Falcon® Cell Culture Multi-Flask

An easier, more productive way to culture cells

Falcon Cell Culture Multi-Flasks enable you to grow more cells faster and easier, thereby making your cell culture workflow more productive.

The tissue culture-treated Falcon Multi-Flasks are available in 3- or 5-layer formats that provide 525 cm² or 875 cm² cell growth surface area. They can be used with a wide range of liquid volumes (up to 50 mL/layer).

Features

- Even distribution of media across all layers for homogeneous cell populations.
- Ability to mix in the Falcon Multi-Flask saves time and reduces risk of contamination.
- Flexible design lets you pour or aspirate/recover cells using a pipet.
- Consistent surface treatments for predictable scale-up.
- Manufactured in compliance to cGMP standards.

Designed to Fit Your Protocol

Simplify your scale-up. Falcon Multi-Flasks, offer the same footprint, the same reagent volumes, and the same cell seeding densities as 175 cm² flasks. Plus, you'll be using the same proven surface treatment as all other Falcon flasks.

Improves Your Cell Culture Productivity

Falcon Multi-Flasks deliver a thoughtful design that simplifies your workflow. You can eliminate multiple steps and reduce the risk of contamination.

- Pipet access allows you to aspirate media to exchange with fresh media and recover cells without pouring.
- The mixing port allows rapid mixing within the Falcon Multi-Flask to create your cell suspension, transfect your cells, or add other reagents directly to the flask. The port also provides for a 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 tissue culture surface treatment, and effective gas exchange all combine to provide an optimal cell culture environment. The result is higher cell yield and a more homogeneous cell population.

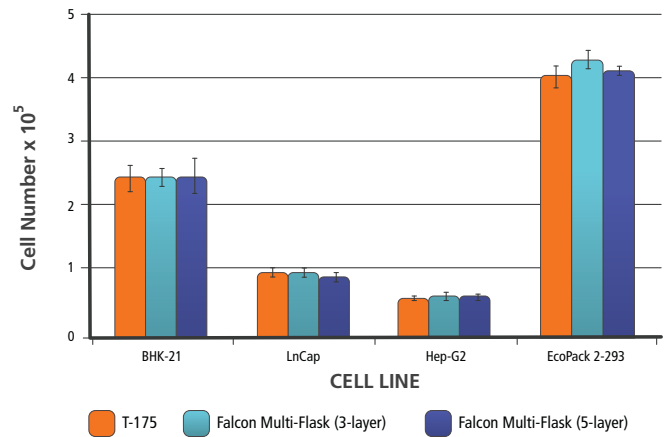
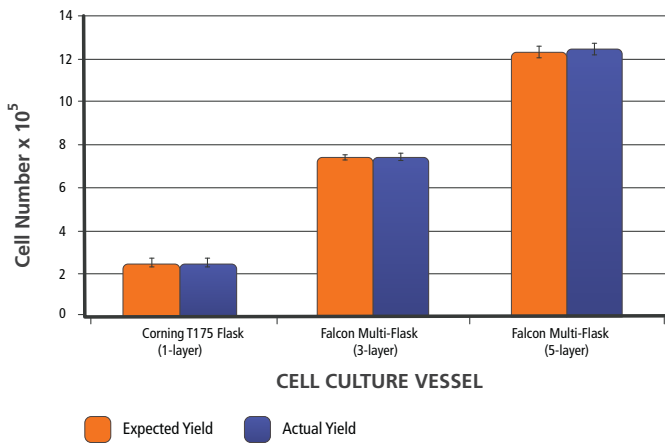
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FALCON®

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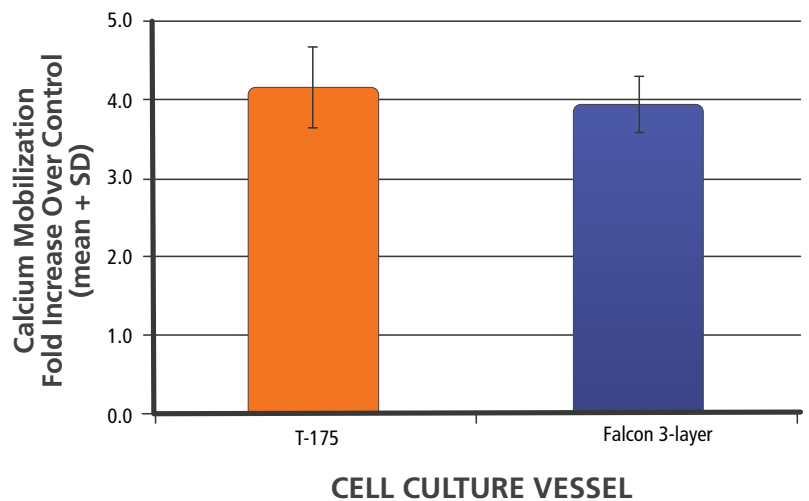
PREDICTABLE SCALE-UP



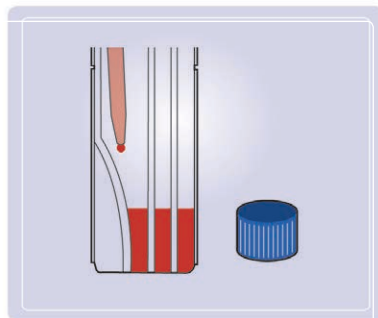
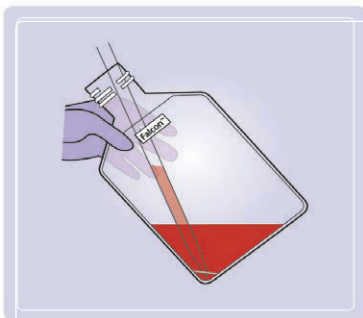
Three and five times more BHK-21 cells were grown and recovered from 3- and 5-layer Falcon® Multi-Flasks than T-175 flasks (left). Cell yields per cm² were equivalent in 3- and 5-layer Falcon Multi-Flasks and T-175 flasks for BHK-21, LnCap, Hep-G2, and EcoPack™2-293 cells (right).

CONSISTENT CELL PHYSIOLOGY

CHO-M1 cells were grown in a T-175 and a 3-layer Falcon Multi-Flask for 72 hours. Cells were harvested and re-seeded on 96-well PDL plates for GPCR Calcium mobilization assay. Cells were challenged with M1 agonist, Carbachol (300 μM) and responses were recorded 1 minute following compound addition. Data is expressed as fold-increase in calcium flux compared to control cells challenged with assay buffer (no drug). No significant difference in agonist response was observed between cells harvested from either vessel type. Data shown is representative of three independent experiments.



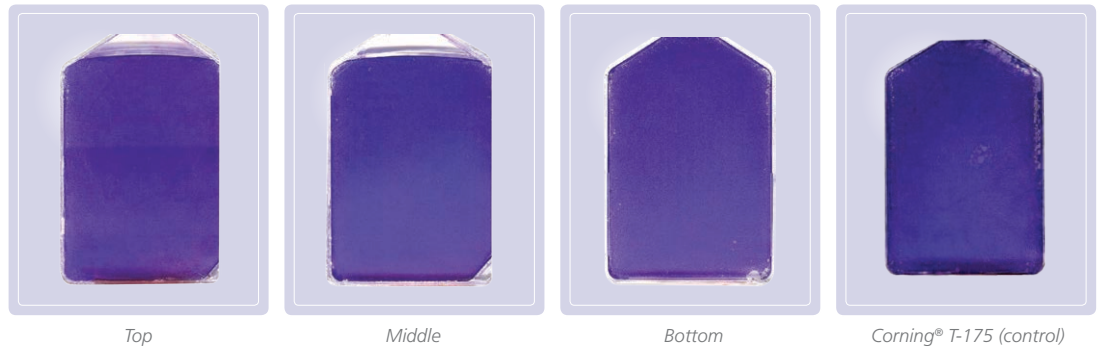
SIMPLIFIED WORKFLOW



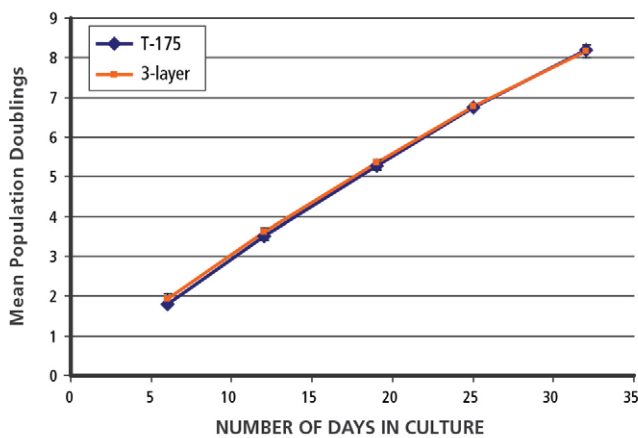
- Pipet access eliminates the need for pouring. It also facilitates the use of a wide range of liquid volumes (up to 50 mL/layer), efficient recovery of valuable cells and reagents, and minimizes the risk of contamination.
- Mixing port eliminates mixing outside the vessel, saving you time and effort. This unique in-vessel mixing allows for rapid and uniform distribution of cells and reagents.
- Compatibility with similar volumes of reagent usage and cell seeding densities as T-175 flasks makes scaling up a familiar and simple process.

CONSISTENT CELL GROWTH

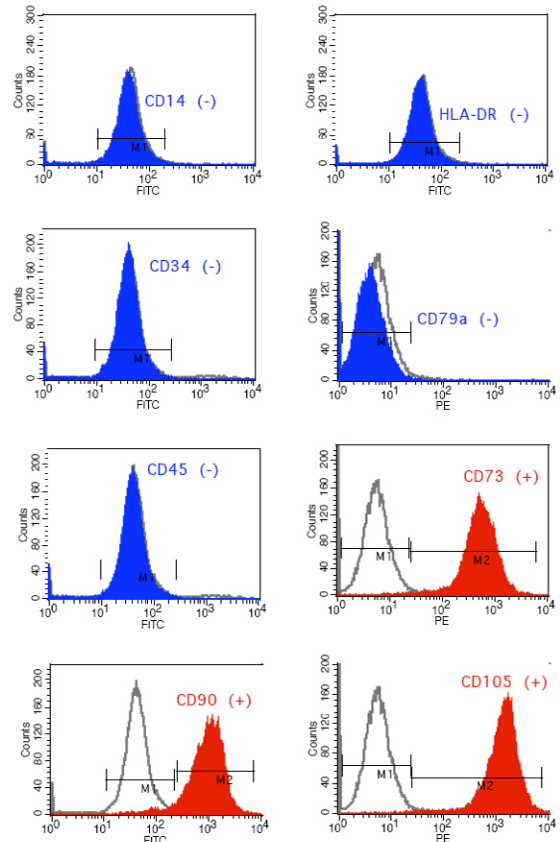
This figure illustrates homogeneous cell growth between layers of Falcon® Multi-Flasks. BHK-21 cells grown to >80% confluence in 3-layer Falcon Multi-Flasks and control T-175 flasks were fixed and stained with crystal violet. Control flasks and individual layers of the multi-flask vessels were cut and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



IDEAL FOR PLURIPOTENT STEM CELLS

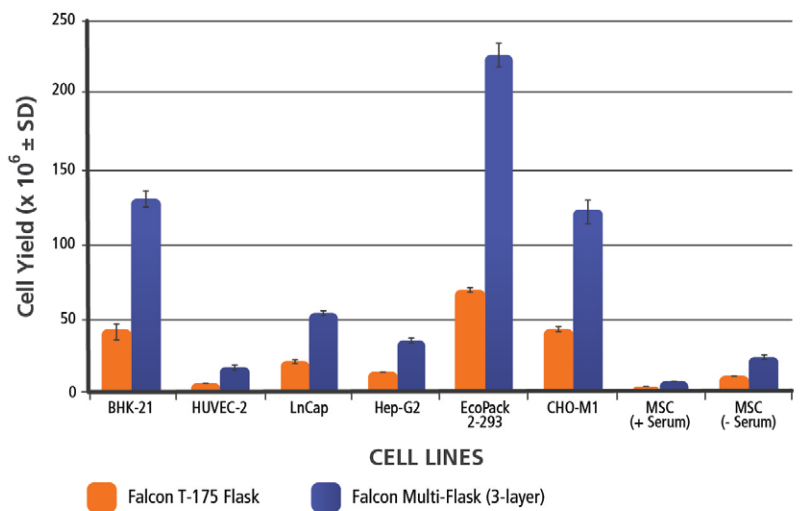


Human Mesenchymal Stem Cells were cultured in MSCGM™ medium (Lonza) and seeded at 4,000 to 5,000 cells/cm² in a T-175 Falcon Flask and a 3-layer Falcon Multi-Flask. The cells were cultured until they reached 80% confluence (~6 days). Cells were harvested, counted, and cumulative population doublings of hMSCs from each vessel type were calculated over five consecutive passages. Immunophenotypic properties of hMSCs grown in the Falcon Multi-Flask as determined by flow cytometric analysis (FACS) confirmed that hMSCs were negative for surface markers CD14, CD34, CD45, CD79a, and HLA-DR and positive for expression of surface markers CD73, CD90, and CD105. Respective isotype controls for each marker antibody are shown in grey.



COMPATIBLE WITH YOUR CELL LINES

Diverse cell lines and primary cultures (with and without serum) can be grown and efficiently recovered from Falcon Multi-Flasks. Expected yield was determined using average cell yield from control T-175 flasks multiplied by three and five times for the 3- and 5-layer Falcon Multi-Flasks, respectively.



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PRODUCT SPECIFICATIONS

WORKING VOLUME RANGE	≥5 mL per layer for dissociating ≤50 mL per layer for cell expansion
MOLDED-IN GRADUATIONS	0 to 50 mL per layer in 10 mL increments
GRADUATION ACCURACY	10%
CAP VENT MEMBRANE	0.2 µm hydrophobic membrane
CELL GROWTH SURFACE	Tissue culture-treated, optically clear

ORDER INFORMATION

Falcon Cell Culture Multi-Flask

Description	Qty/Pack	Qty/Case	Cat. No.
3-LAYER TISSUE CULTURE-TREATED, 525 CM ²	2	12	353143
5-LAYER TISSUE CULTURE-TREATED, 875 CM ²	1	8	353144

U.S. Orders

tel: 800.492.1110
email: CLSCustServ@corning.com

Outside the U.S.

Contact your local distributor or visit
www.corning.com/lifesciences to locate
your nearest Corning office.

ACCESSORIES

Description	Qty/Pack	Qty/Case	Cat. No.
Falcon Pipets			
ASPIRATING PIPET 2 ML INDIVIDUALLY WRAPPED	50	200	357558
10 ML INDIVIDUALLY WRAPPED PAPER-PLASTIC	50	200	357551
10 ML INDIVIDUALLY WRAPPED PLASTIC-PLASTIC	50	200	356551
Falcon Tubes			
50 ML POLYPROPYLENE CONICAL TUBE	25	500	352070
175 ML POLYPROPYLENE CONICAL TUBE	8	48	352076
225 ML POLYPROPYLENE CONICAL TUBE	8	48	352075

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