

# Технические характеристики

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# Corning® HYPERStack® Cell Culture Vessels



## Corning's High Yield **PER**formance (HYPER) Platform - Closed System for High Yield Cell Growth

The Corning HYPERStack cell culture vessel combines the best of two Corning products: the Corning CellSTACK® and the Corning HYPERFlask® cell culture vessels. The utilization of gas-permeable film technology provided in the spatial footprint of the CellSTACK vessel allows the HYPERStack platform to be among the most efficient, scalable cell culture vessels for adherent cell culture available today.

### Features and Benefits

- More cells – provides up to 5X the growth surface area of a traditional cell culture vessel of comparable footprint
- Closed system – no open fluid manipulations
- Scalable product – multiple size offerings support scale-up and scale-out
- Ergonomic design – easier manipulation with handling equipment and accessories
- Fixed media volume – 0.2 mL/cm<sup>2</sup> fills vessel for less volumetric waste

### Surface Treatment Guide

Corning CellBIND® surface treatment is designed to enhance cell attachment and increase cell yields, improving attachment of loosely adherent cells and maintaining growth in reduced-serum or serum-free conditions. Alternatively, a non-treated option can support conventional cell attachment and allow for a faster and gentler harvest procedure for downstream processing and assays.

For more information, please refer to the Corning® CellBIND® Surface Brochure in the resource tab on the product pages below.

**Layer Number**

12
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36
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**Surface Treatment**

CellBIND
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Untreated
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## Products

<b>Product Number</b>	20012
<b>Product Name</b>	Corning® CellBIND® HYPERStack® - 12 Layer Cell Culture Vessel, 4 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	20013
<b>Product Name</b>	Corning® Untreated HYPERStack® - 12 Layer Cell Culture Vessel, 4 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

<b>Product Number</b>	20036
<b>Product Name</b>	Corning® CellBIND® HYPERStack® - 36 Layer Cell Culture Vessel, 2 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	20037
<b>Product Name</b>	Corning® Untreated HYPERStack® - 36 Layer Cell Culture Vessel, 2 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

# Corning® CellSTACK® Culture Chambers



Available in five sizes:

- 1-Stack with 636 cm<sup>2</sup> cell growth area
- 2-Stack with 1,272 cm<sup>2</sup> cell growth area
- 5-Stack with 3,180 cm<sup>2</sup> cell growth area
- 10-Stack with 6,360 cm<sup>2</sup> cell growth area
- 40-Stack with 25,440 cm<sup>2</sup> cell growth area

Choice of traditional surface treatment, Corning CellBIND® surface for enhanced cell attachment, or Ultra-Low Attachment surface for reduced cell attachment on selected CellSTACK products.

- Corning CellBIND surface
  - Great for reducing serum levels
  - Better attachment increases cell yields
- Ultra-Low Attachment surface
  - Maintains cells in a suspended, unattached state
  - Prevents attachment-mediated differentiation
  - Prevents anchorage-dependent cells from dividing
  - Reduces binding of attachment and serum proteins to the substrate
- Greater chamber durability
  - Superior mechanical strength and structural integrity
  - Self venting caps prevent pressure build-up during transport
  - 100% leak-tested prior to shipping

- Greater cleanliness
- Sterile
- Nonpyrogenic
- Continuous supply reliability – manufactured in USA under GMP conditions
- Easier to use
  - Larger openings with threaded closures and vented caps
  - Footprint supports use in standard automation manipulation equipment

#### Chamber Number

1
2
5
10
40

#### Surface Treatment

Corning CellBIND
TC-treated
Ultra-Low Attachment

#### Qty/Cs

2 Pks/Cs
5 Pks/Cs
6 Pks/Cs
8 Pks/Cs

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## Products

<b>Product Number</b>	3268
<b>Product Name</b>	Polystyrene CellSTACK® - 1 Chamber with Vent Caps, 8 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	8 / Cs
<b>Product Number</b>	3269
<b>Product Name</b>	Polystyrene CellSTACK® - 2 Chamber with Vent Caps, 5 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	3270
<b>Product Name</b>	Polystyrene CellSTACK® - 10 Chamber with Vent Caps, 2 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

<b>Product Number</b>	3271
<b>Product Name</b>	Polystyrene CellSTACK® - 10 Chamber with Vent Caps, 6 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	3272
<b>Product Name</b>	Polystyrene CellSTACK® - 40 Chamber with Vent Caps, 2 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3303
<b>Product Name</b>	Polystyrene CellSTACK® - 1 Chamber with Ultra-Low Attachment Surface and Vent Caps, 8 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	8 / Cs



<b>Product Number</b>	3310
<b>Product Name</b>	Corning® CellBIND® Polystyrene CellSTACK® - 2 Chamber with Vent Caps, 5 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	3311
<b>Product Name</b>	Corning® CellBIND® Polystyrene CellSTACK® - 5 Chamber with Vent Caps, 2 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3312
<b>Product Name</b>	Corning® CellBIND® Polystyrene CellSTACK® - 10 Chamber with Vent Caps, 2 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

<b>Product Number</b>	3313
<b>Product Name</b>	Polystyrene CellSTACK® - 5 Chamber with Vent Caps, 8 per Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	8 / Cs

# Vented Easy Grip Polyethylene Roller Bottle Cap, Individually Wrapped, Sterile

**Product Number 431132**



- Features large knurls for ergonomic handling
- Contains hydrophobic membrane for applications requiring gas exchange
- Sterilized by gamma radiation
- Does not fit 490cm<sup>2</sup> roller bottles

Qty./Pk	1 / Pk
Qty./Cs	300 / Cs
Brand	Corning®

# Corning® Polystyrene Roller Bottle



Treated for optimal cell attachment

- One piece seamless construction
- All bottles have printed lot numbers to aid in product traceability
- Sterile
- Nonpyrogenic

Cap Style

Easy Grip
Easy Grip Vent
Plug Seal

Qty/Pk

10/Pk
20/Pk
22/Pk
2/Pk

5/Pk
------

Qty/Cs

20/Cs
-------

40/Cs
-------

44/Cs
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Surface Treatment

Corning CellBIND
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TC-treated
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Surface Area

490 cm <sup>2</sup>
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850 cm <sup>2</sup>
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1750 cm <sup>2</sup>
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Products

Product Number	3907
Product Name	Corning® CellBIND® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 2 per Bag, 40 per Case
Qty./Pk	2 / Pk
Qty./Cs	40 / Cs
Product Number	430195
Product Name	Corning® 490cm <sup>2</sup> Polystyrene Roller Bottle with Plug Seal Cap, 2 per Bag, 40 per Case
Qty./Pk	2 / Pk
Qty./Cs	40 / Cs

<b>Product Number</b>	430699
<b>Product Name</b>	Corning® 1750cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 10 per Bag, 20 per Case
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	20 / Cs
<b>Product Number</b>	430849
<b>Product Name</b>	Corning® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 2 per Bag, 40 per Case
<b>Qty./Pk</b>	2 / Pk
<b>Qty./Cs</b>	40 / Cs
<b>Product Number</b>	430851
<b>Product Name</b>	Corning® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 5 per Bag, 40 per Case
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	40 / Cs
<b>Product Number</b>	431133
<b>Product Name</b>	Corning® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 20 per Bag, 20 per Case
<b>Qty./Pk</b>	20 / Pk
<b>Qty./Cs</b>	20 / Cs

<b>Product Number</b>	431198
<b>Product Name</b>	Corning® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Vent Cap, 2 per Bag, 40 per Case
<b>Qty./Pk</b>	2 / Pk
<b>Qty./Cs</b>	40 / Cs
<b>Product Number</b>	431321
<b>Product Name</b>	Corning® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 22 per Bag, 44 per Case
<b>Qty./Pk</b>	22 / Pk
<b>Qty./Cs</b>	44 / Cs
<b>Product Number</b>	431329
<b>Product Name</b>	Corning® CellBIND® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Vent Cap, 2 per Bag, 40 per Case
<b>Qty./Pk</b>	2 / Pk
<b>Qty./Cs</b>	40 / Cs
<b>Product Number</b>	431344
<b>Product Name</b>	Corning® CellBIND® 850cm <sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, 22 per Bag, 44 per Case
<b>Qty./Pk</b>	22 / Pk
<b>Qty./Cs</b>	44 / Cs

# Corning® Disposable Tubing for Use with Bottles





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**For Use With**

Glass Bottles
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Polystyrene Roller Bottles
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**Products**

<b>Product Number</b>	10042
<b>Product Name</b>	Disposable Tubing Set for Use with Glass Bottle, 3/8" ID x 1/2" OD, ADCF*, 18" in Length, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	10043
<b>Product Name</b>	Disposable Tubing Set for use with 850cm <sup>2</sup> Polystyrene Roller Bottle, 3/8" ID x 1/2" OD, ADCF*, 0.2 µm filter, MPC* Quick Connect
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

# Corning® Expanded Surface Polystyrene Roller Bottle



Treated for optimal cell attachment

- One piece seamless construction
- All bottles have printed lot numbers to aid in product traceability
- Sterile
- Nonpyrogenic
- Ribbed design provides twice the surface area with the same exterior dimensions

Surface Treatment

Corning CellBIND
TC-treated

Surface Area

1700 cm <sup>2</sup>
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Cap Style

Easy Grip
Easy Grip Vent

Qty/Pk

20/Pk
2/Pk
5/Pk
Qty/Cs
20/Cs
40/Cs

## Products

Product Number	430852
Product Name	Corning® 1700cm <sup>2</sup> Expanded Surface Polystyrene Roller Bottle with Easy Grip Cap, 2 per Bag, 40 per Case
Qty./Pk	2 / Pk
Qty./Cs	40 / Cs
Product Number	430853
Product Name	Corning® 1700cm <sup>2</sup> Expanded Surface Polystyrene Roller Bottle with Easy Grip Cap, 5 per Bag, 40 per Case
Qty./Pk	5 / Pk
Qty./Cs	40 / Cs
Product Number	431134
Product Name	Corning® CellBIND® 1700cm <sup>2</sup> Expanded Surface Polystyrene Roller Bottle with Easy Grip Cap, 20 per Bag, 20 per Case
Qty./Pk	20 / Pk
Qty./Cs	20 / Cs

<b>Product Number</b>	431135
<b>Product Name</b>	Corning® 1700cm <sup>2</sup> Expanded Surface Polystyrene Roller Bottle with Easy Grip Cap, 20 per Bag, 20 per Case
<b>Qty./Pk</b>	20 / Pk
<b>Qty./Cs</b>	20 / Cs
<b>Product Number</b>	431191
<b>Product Name</b>	Corning® 1700cm <sup>2</sup> Expanded Surface Polystyrene Roller Bottle with Easy Grip Vent Cap, 20 per Bag, 20 per Case
<b>Qty./Pk</b>	20 / Pk
<b>Qty./Cs</b>	20 / Cs

# PYREX® Bottle, Storage, Screw Caps



These are various sizes and types of screw caps for use with storage bottles.

## Cap Style

3-Hole Red PBT Delivery Cap

Clear Ring

Gray Membrane Cap

Green Cap

Open-top PBT High Temperature

Show More

## Thread Finish

GL 25

GL 32

GL 45

## Products

<b>Product Number</b>	1395-25HTSC
<b>Product Name</b>	Corning® GL25 Red Open Top High Temperature (180°C) PBT Screw Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs
<b>Product Number</b>	1395-25SS
<b>Product Name</b>	Corning® Silicone Septa for GL25 Open Top PBT Screw Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs
<b>Product Number</b>	1395-32HTC
<b>Product Name</b>	Corning® GL32 Red High Temperature (180°C) PBT Screw Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs

<b>Product Number</b>	1395-32HTSC
<b>Product Name</b>	Corning® GL32 Red Open Top High Temperature (180°C) PBT Screw Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs
<b>Product Number</b>	1395-32LTR
<b>Product Name</b>	Corning® 32 mm Polypropylene Pouring Ring
<b>Qty./Pk</b>	50 / Pk
<b>Qty./Cs</b>	50 / Cs
<b>Product Number</b>	1395-32SS
<b>Product Name</b>	Corning® Silicone Septa for GL32 Open Top PBT Screw Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs
<b>Product Number</b>	1395-45DC
<b>Product Name</b>	Corning® GL45 3-Hole Delivery, Red High Temperature (180°C) PBT
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

<b>Product Number</b>	1395-45LTC1
<b>Product Name</b>	Corning® GL45 Purple Polypropylene Screw Cap with Plug Seal
<b>Qty./Pk</b>	20 / Pk
<b>Qty./Cs</b>	20 / Cs
<b>Product Number</b>	1395-45LTC3
<b>Product Name</b>	Corning® GL45 Green Polypropylene Screw Cap with Plug Seal
<b>Qty./Pk</b>	20 / Pk
<b>Qty./Cs</b>	20 / Cs
<b>Product Number</b>	1395-45LTMC
<b>Product Name</b>	Corning® GL45 Gray Polypropylene Vented Screw Cap with 0.22 µm PTFE Membrane
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs



Corning® 850cm<sup>2</sup> Polystyrene Roller Bottle with Easy Grip Cap, Not Treated, 1 per Bag, 40 per Case

Product Number 431644



- To be used with Tubing Set (Cat. No. 10043)
- Bottles are manufactured from virgin polystyrene, caps from high density polyethylene
- Both resins meet the USP Class VI requirements for plastic containers and closures
- Chemically resistant, heat sealable flexible tubing
- One piece seamless construction with printed graduations
- Printed lot numbers to aid in product traceability
- Sterilized by gamma radiation and nonpyrogenic
- Easy Grip Cap features large knurls designed for ergonomic handling

Qty./Pk	1 / Pk
Qty./Cs	40 / Cs
Brand	Corning®
Cell Growth Area	850 cm <sup>2</sup>

Neck Style	Wide Mouth
Graduations	Yes
Recommended Medium Volume	170 - 255 mL
O.D.	117 mm (approx.)
Height	271 mm (approx.)
Neck O.D.	45 mm (approx.)

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# Corning® Microcarriers for Bioprocess Scale-up



Corning microcarriers are designed to simplify your scale-up processes. The microcarriers are sterile, ready-to-use, and available in closed systems packaging to be used directly with bioreactors. Additionally, the microcarriers are surface-treated to enhance cell attachment, maximizing cell yield and viability.

## Features

- Consistency – USP Class VI polystyrene material provides a consistent platform
- Performance – Corning microcarriers are offered untreated or with the following surface treatments:
  - Corning Synthemax® II substrate creates a synthetic surface on the microcarriers for stem cell expansion. For use with MSC and iPS/ES applications. (Animal Origin Free)
  - Corning CellBIND® surface treatment infuses the surface of the microcarriers with oxygen to improve cell attachment. (Animal Origin Free)
  - Collagen coating
- Sterility Assurance Level (SAL) of  $10^{-6}$
- Nonpyrogenic
- Available as closed system solutions

## Product Specifications

- Bead size: 125  $\mu\text{m}$  to 212  $\mu\text{m}$
- Density:  $1.026 \pm 0.004 \text{ g/cm}^3$
- $\text{cm}^2/\text{gram}$ : 360

## Vials and Closed System Packaging

Corning microcarriers are available sterile and ready to use in 10 g vials. This format provides flexibility to select the amount of beads to use.

During the mature phase of process development and into manufacturing, closed system packaging would be necessary to

maintain sterility and ease bioreactor loading. Corning microcarriers are also available in off-the-shelf and custom closed systems packaging. Tubing, connectors, and materials are customizable based on individual needs.

Surface Treatment

Collagen
Corning CellBIND
Low Concentration Synthemax II
None

Size

100 g
10 g
500 g

Products

Product Number	3772
Product Name	Corning® Untreated Microcarriers, 10g Vial
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	3779
Product Name	Corning® Enhanced Attachment Microcarriers, 10g Vial
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs

<b>Product Number</b>	3781
<b>Product Name</b>	Corning® Low Concentration Synthemax® II Microcarriers, 10g Vial
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	3786
<b>Product Name</b>	Corning® Collagen Coated Microcarriers, 10g Vial
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4620
<b>Product Name</b>	Corning® CellBIND® Microcarriers, 100g Bottle
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4621
<b>Product Name</b>	Corning® CellBIND® Microcarriers, 500g Bottle
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4622
<b>Product Name</b>	Corning® Low Concentration Synthemax® II Microcarriers, 100g Bottle
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

<b>Product Number</b>	4623
<b>Product Name</b>	Corning® Low Concentration Synthemax® II Microcarriers, 500g Bottle
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4624
<b>Product Name</b>	Corning® Untreated Microcarriers, 100g Bottle
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4625
<b>Product Name</b>	Corning® Untreated Microcarriers, 500g Bottle
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

## A clear plastic 500ml bottle with an orange cap is shown. A clear plastic tubing system with white connectors is attached to the cap. The tubing is coiled and has a white connector at the end. The bottle is partially filled with a white liquid. The background is a solid blue color.

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These are aseptic transfer caps for 100 g and 500 g sizes.

**Capacity**

100 g
500 g

**Tubing Connection**

Luer Lock
MPC

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**Products**

<b>Product Number</b>	4626
<b>Product Name</b>	Disposable 45 mm Aseptic Transfer Cap for 100 g Microcarriers Bottles, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4627
<b>Product Name</b>	Disposable 45 mm Aseptic Transfer Cap for 100 g Microcarriers Bottles, MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs



<b>Product Number</b>	4628
<b>Product Name</b>	Disposable 48 mm Aseptic Transfer Cap for 500g Microcarriers Bottles, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4629
<b>Product Name</b>	Disposable 48 mm Aseptic Transfer Cap for 500 g Microcarriers Bottles, MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

# Corning® CellCube® Systems



The Corning CellCube system provides a fast, simple, and compact method for the mass culture of attachment-dependent cells. It uses a tissue culture-treated growth surface for cell attachment, and continually perfuses the cells with fresh medium for increased cell productivity. The CellCube system provides an environment which more closely simulates *in vivo* conditions and reliably distributes nutrients and oxygen with low differential gradients across all cells within the modules. The CellCube modules provide a traditional tissue culture-treated surface or Corning CellBIND® surface for the growth of attachment dependent cells.

## Module Number

10

25

100

## Surface Treatment

Corning CellBIND

TC-treated

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## Products

<b>Product Number</b>	3032
<b>Product Name</b>	Corning® CellBIND® 100-Layer CellCube® Module with 85,000cm <sup>2</sup> Growth Surface
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	3200
<b>Product Name</b>	10-Layer CellCube® Module with 8,500cm <sup>2</sup> Growth Surface
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3201
<b>Product Name</b>	25-Layer CellCube® Module with 21,250cm <sup>2</sup> Growth Surface
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	3231
<b>Product Name</b>	10-Layer CellCube® Module with 8,500 cm <sup>2</sup> Growth Surface and Aseptic Connectors
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

<b>Product Number</b>	3232
<b>Product Name</b>	25-Layer CellCube® Module with 21,250 cm² Growth Surface and Aseptic Connectors
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	3233
<b>Product Name</b>	100-Layer CellCube® Module with 85,000 cm² Growth Surface and Aseptic Connectors
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	3264
<b>Product Name</b>	100-Layer CellCube® Module with 85,000cm² Growth Surface
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	3304
<b>Product Name</b>	Corning® CellBIND® 25-Layer CellCube® Module with 21,250cm² Growth Surface
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

# Corning® Erlenmeyer Flasks, PP



Translucent polypropylene flasks are manufactured with blue graduations for reference. The flasks have a screw neck and are supplied with a blue PP cap.

## Capacity

50 mL
100 mL
250 mL
500 mL
1 L

---

## Products

<b>Product Number</b>	4985P-100
<b>Product Name</b>	Corning® 100 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polypropylene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	4985P-1L
<b>Product Name</b>	Corning® 1L Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polypropylene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	4985P-250
<b>Product Name</b>	Corning® 250 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polypropylene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs

<b>Product Number</b>	4985P-50
<b>Product Name</b>	Corning® 50 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polypropylene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	4985P-500
<b>Product Name</b>	Corning® 500 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polypropylene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs

# Corning® Polycarbonate Erlenmeyer Flasks





### Bottom Style

Baffled
---------

Plain
-------

### Cap Style

Flat
------

Vent
------

### Capacity

125 mL
--------

250 mL
--------

500 mL
--------

1 L
-----

2 L
-----

Show More
-----------

## Products

Product Number	430183
Product Name	Corning® 250 mL Polycarbonate Erlenmeyer Flask with Flat Cap
Qty./Pk	1 / Pk
Qty./Cs	50 / Cs

<b>Product Number</b>	430421
<b>Product Name</b>	Corning® 125 mL Polycarbonate Erlenmeyer Flask with Flat Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	50 / Cs
<b>Product Number</b>	430422
<b>Product Name</b>	Corning® 500 mL Polycarbonate Erlenmeyer Flask with Flat Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	25 / Cs
<b>Product Number</b>	431143
<b>Product Name</b>	Corning® 125 mL Polycarbonate Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	50 / Cs

<b>Product Number</b>	431144
<b>Product Name</b>	Corning® 250 mL Polycarbonate Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	50 / Cs
<b>Product Number</b>	431145
<b>Product Name</b>	Corning® 500 mL Polycarbonate Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	25 / Cs
<b>Product Number</b>	431146
<b>Product Name</b>	Corning® 1L Polycarbonate Erlenmeyer Flask with Flat Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	25 / Cs

<b>Product Number</b>	431147
<b>Product Name</b>	Corning® 1L Polycarbonate Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	25 / Cs
<b>Product Number</b>	431252
<b>Product Name</b>	Corning® 3L Polycarbonate Erlenmeyer (Fernbach Design) Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	431253
<b>Product Name</b>	Corning® 3L Baffled Polycarbonate Erlenmeyer (Fernbach Design) Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

# Corning® Preassembled Closed System Solutions for Erlenmeyer Flasks



Full closed systems solutions are offered with Aseptic Transfer Cap preassembled to a Polycarbonate Erlenmeyer Flask. A preassembled vessel offers a complete aseptic solution and are available for the 125mL, 250mL, 500mL, 1L, 2L, 3L, and 5L flask sizes.

The transfer caps have two ports: One port ends in a 0.2 µm filter, and the other port is chemically resistant, heat sealable flexible tubing, ending in either a Male Luer Lock or a Male Polycarbonate quick connect. The dip tube reaches all the way to the bottom of the flask for easy aseptic transfer of your liquid handling processes.

- Sizes range from 125mL to 5L
- MLL or MPC tubing connector types
- Individually packaged
- Double-bagged
- Sterility Assurance Level (SAL) of  $10^{-6}$

## Capacity

125 mL
250 mL
500 mL

1 L
2 L
Show More

Outer Diameter

1/4 in.
3/8 in.

Tube Length

12 in.
20 in.
36 in.

Products

Product Number	11405
Product Name	Corning® 125 mL Polycarbonate Erlenmeyer Flask with 1/8 Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile, 1/bag, 6/case
Qty./Pk	1 / Pk
Qty./Cs	6 / Cs

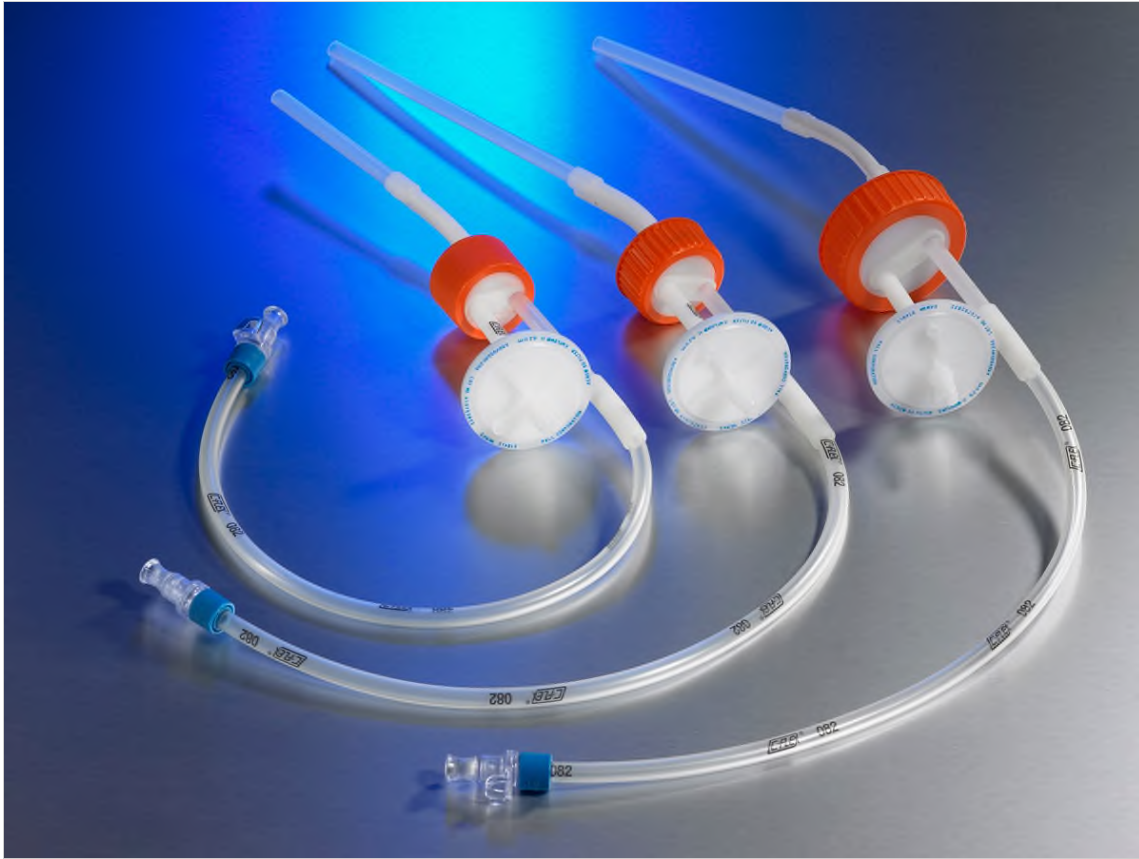
<b>Product Number</b>	11410
<b>Product Name</b>	Corning® 250 mL Polycarbonate Erlenmeyer Flask with 1/8 Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile, 1/bag, 4/case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	11415
<b>Product Name</b>	Corning® 250 mL Polycarbonate Erlenmeyer Flask with 1/8 Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile, 1/bag, 4/case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	11425
<b>Product Name</b>	Corning® 500 mL Polycarbonate Erlenmeyer Flask with 1/8 Dip Tube, Male Luer Lock, Sterile, 1/bag, 2/case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

<b>Product Number</b>	11440
<b>Product Name</b>	Corning® 1L Polycarbonate Erlenmeyer Flask with Dip Tube, with 0.2 µm PTFE Filter, MLL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	11460
<b>Product Name</b>	Corning® 2L Polycarbonate Erlenmeyer Flask with 1/8 Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile, 1/bag, 2/case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	11465
<b>Product Name</b>	Corning® 2L Polycarbonate Erlenmeyer Flask with 1/4 Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile, 1/bag, 2/case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	11495
<b>Product Name</b>	Corning® 3L Polycarbonate Erlenmeyer Flask with 1/4 Dip Tube, Male Luer Lock, Sterile, 1/bag, 2/case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs



<b>Product Number</b>	11501
<b>Product Name</b>	5L Plain Bottom Erlenmeyer Flask with Disposable 100 mm Aseptic Transfer Cap, 0.2 µm Vent, Male MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	11502
<b>Product Name</b>	5L Baffled Bottom Erlenmeyer Flask with Disposable 100 mm Aseptic Transfer Cap, 0.2 µm Vent, Male MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

# Corning® Disposable Aseptic Transfer Cap for Erlenmeyer Flasks



Aseptic Transfer Caps fit both Polycarbonate (PC) and Polyethylene terephthalate glycol-modified (PETG) Erlenmeyer Flasks. The caps are threaded and made of high-density polyethylene (HDPE).

The transfer caps have two ports: One port ends in a 0.2 µm filter, and the other port is chemically resistant, heat sealable flexible tubing, ending in either a Male Luer Lock or a Male Polycarbonate quick connect. The dip tube reaches all the way to the bottom of the flask for easy aseptic transfer of your liquid handling processes.

- Sizes range from 1L to 5L
- MLL or MPC tubing connector types
- Individually packaged
- Double-bagged
- Sterility Assurance Level (SAL) of  $10^{-6}$

## Cap Size

100mm
43mm
48mm
70mm

## Tubing Connection

Male Luer Lock

Male MPC

## Products

**Product Number**

11500

**Product Name**

Disposable 100 mm Aseptic Transfer Cap for 5L Plastic Erlenmeyer Flask, 0.2 µm Vent, Male MPC, Sterile

**Qty./Pk**

1 / Pk

**Qty./Cs**

4 / Cs

**Product Number**

431444

**Product Name**

Disposable 43 mm Aseptic Transfer Cap for 1L Plastic Erlenmeyer Flask, 1/8" Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile

**Qty./Pk**

1 / Pk

**Qty./Cs**

5 / Cs

**Product Number**

431445

**Product Name**

Disposable 43 mm Aseptic Transfer Cap for 1L Plastic Erlenmeyer Flask, 1/4" Dip Tube, 0.2 µm Vent, MPC Male Disconnect, Sterile

**Qty./Pk**

1 / Pk

**Qty./Cs**

5 / Cs

<b>Product Number</b>	431446
<b>Product Name</b>	Disposable 48 mm Aseptic Transfer Cap for 2L Plastic Erlenmeyer Flask, 1/8" Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	431447
<b>Product Name</b>	Disposable 48 mm Aseptic Transfer Cap for 2L Plastic Erlenmeyer Flask, 1/4" Dip Tube, 0.2 µm Vent, MPC Male Disconnect, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	431448
<b>Product Name</b>	Disposable 70 mm Aseptic Transfer Cap for 3L Plastic Erlenmeyer Flask, 1/8" Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

<b>Product Number</b>	431449
<b>Product Name</b>	Disposable 70 mm Aseptic Transfer Cap for 3L Plastic Erlenmeyer Flask, 1/4" Dip Tube, 0.2 µm Vent, MPC Male Disconnect, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

# Corning® Erlenmeyer Flasks, PMP



Translucent polymethylpentene flasks are manufactured with red graduations for reference. The flasks have a screw neck and are supplied with a red PP cap.

#### Capacity

50 mL
100 mL
250 mL
500 mL
1 L

## Products

<b>Product Number</b>	4990P-100
<b>Product Name</b>	Corning® 100 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polymethylpentene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	4990P-1L
<b>Product Name</b>	Corning® 1L Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polymethylpentene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

<b>Product Number</b>	4990P-250
<b>Product Name</b>	Corning® 250 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polymethylpentene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	4990P-50
<b>Product Name</b>	Corning® 50 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polymethylpentene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	4990P-500
<b>Product Name</b>	Corning® 500 mL Reusable Plastic Narrow Mouth Erlenmeyer Flask, Polymethylpentene with GL-45 PP Screw Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs



# Corning® PETG Erlenmeyer Flasks



Corning baffled and plain Erlenmeyer and Fernbach culture flasks are ideal for shaker culture applications and storage. Replacement caps available for 2L, 3L, and 5L flask sizes.

- Polyethylene terephthalate glycol-modified (PETG) construction: USP Class VI material provides excellent optical clarity and mechanical strength
- Sizes range from 2L to 5L
- Baffled or plain bottom options in every size
- Molded-in graduations for accuracy ( $\pm 5\%$ )
- Vent cap for continuous gas exchange while ensuring sterility and preventing leakage
- Individually packaged
- Sterility Assurance Level (SAL) of  $10^{-6}$
- RNase-/DNase-free
- Nonpyrogenic

## Bottom Style

Baffled
Plain

## Capacity

2 L
3 L

5 L
-----

Graduation Interval

100 mL
--------

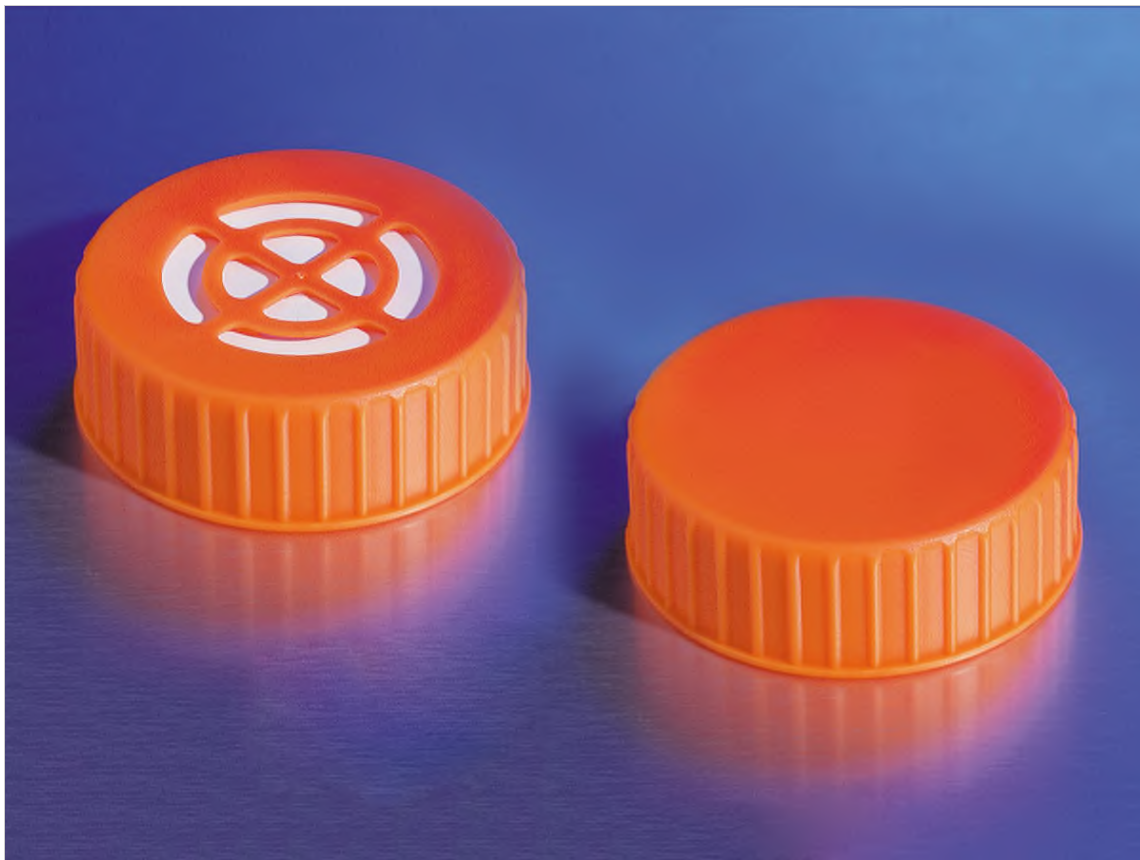
None
------

## Products

Product Number	431280
Product Name	Corning® 2 L PETG Erlenmeyer Flask with Vent Cap
Qty./Pk	1 / Pk
Qty./Cs	6 / Cs
Product Number	431281
Product Name	Corning® 2 L Baffled PETG Erlenmeyer Flask with Vent Cap
Qty./Pk	1 / Pk
Qty./Cs	6 / Cs
Product Number	431282
Product Name	Corning® 3 L PETG Erlenmeyer (Fernbach Design) Flask with Vent Cap
Qty./Pk	1 / Pk
Qty./Cs	4 / Cs

<b>Product Number</b>	431283
<b>Product Name</b>	Corning® 3L Baffled PETG Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	431284
<b>Product Name</b>	Corning® 5 L PETG Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	431285
<b>Product Name</b>	Corning® 5 L Baffled PETG Erlenmeyer Flask with Vent Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

# Corning® Replacement Erlenmeyer Flask Caps



Corning polypropylene Erlenmeyer flask caps are also available separately. These caps fit both Polycarbonate (PC) and Polyethylene terephthalate glycol-modified (PETG) Erlenmeyer Flasks and are available for the 500 mL and 1L, 2L, 3L, and 5L flask sizes.

- Sizes range from 500mL to 5L
- Vent and flat cap options
- Individually packaged
- Sterility Assurance Level (SAL) of  $10^{-6}$
- RNase-/DNase-free
- Nonpyrogenic

## Cap Size

<input type="text" value="100mm"/>
<input type="text" value="43mm"/>
<input type="text" value="48mm"/>
<input type="text" value="70mm"/>

## Cap Style

<input type="text" value="Flat"/>
-----------------------------------

Vent

## Products

<b>Product Number</b>	431339
<b>Product Name</b>	Corning® 48 mm Polypropylene Cap, Vented, for 2L Plastic Erlenmeyer Flask
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	24 / Cs
<b>Product Number</b>	431340
<b>Product Name</b>	Corning® 70 mm Polypropylene Cap, Vented, for 3L Plastic Erlenmeyer Flask
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	24 / Cs
<b>Product Number</b>	431363
<b>Product Name</b>	Corning® 70 mm Polypropylene Cap for 3L Plastic Erlenmeyer Flask
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	24 / Cs

<b>Product Number</b>	431364
<b>Product Name</b>	Corning® 48 mm Polypropylene Cap for 2L Plastic Erlenmeyer Flask
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	24 / Cs
<b>Product Number</b>	431372
<b>Product Name</b>	Corning® 43 mm Polypropylene Cap, Vented, for 500 mL and 1L Plastic Erlenmeyer Flask
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	50 / Cs
<b>Product Number</b>	431682
<b>Product Name</b>	Corning® 100 mm Polypropylene Cap, Vented, for 5L Plastic Erlenmeyer Flask
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	24 / Cs

# Corning® 50 mL Mini Bioreactor

Product Number 431720



## Features and Benefits

- Polypropylene tube with large marking spot to clearly identify tube contents and experimental parameters
- High Density Polyethylene cap with 4 vents; hydrophobic membrane provides gas exchange
- Sterile, nonpyrogenic and RNase-/DNase-free

## Details

Product Number

431720

Qty./Pk	25 / Pk
Qty./Cs	300 / Cs
Brand	Corning®
Cap Material	High density polyethylene
Sterile	Yes

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# Disposable Polyethylene Vent Cap for GL45 Plastic Spinner Flasks, Sterile

Product Number 3567



Disclaimer: This product is not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment.

These disposable high density polyethylene sterile vent caps contain a 0.2 µm pore hydrophobic PTFE membrane. They are designed to fit the Corning® 500 mL, 1L and 3L Disposable Spinner Flasks (Cat. Nos. 3153, 3561and 3563) for culture applications requiring increased gas exchange. They also fit Corning disposable polystyrene and polycarbonate storage bottles and glass bottles with GL45 threads for applications requiring venting.

- Individually double bagged
- Features large knurls for ergonomic handling
- Sterilized (10<sup>-6</sup> SAL) by gamma radiation; autoclaving is not recommended

## Details

Product Number	3567
Qty./Pk	1 / Pk
Qty./Cs	4 / Cs
Brand	Corning®

# Corning® Disposable Spinner Flask Caps



Corning disposable spinner flask replacement caps are available separately. Each are provided sterile and individually doubled-bagged. Caps are available for 500 mL, 1L, and 3L flask sizes.

Capacity

1 L
3 L

Cap Style

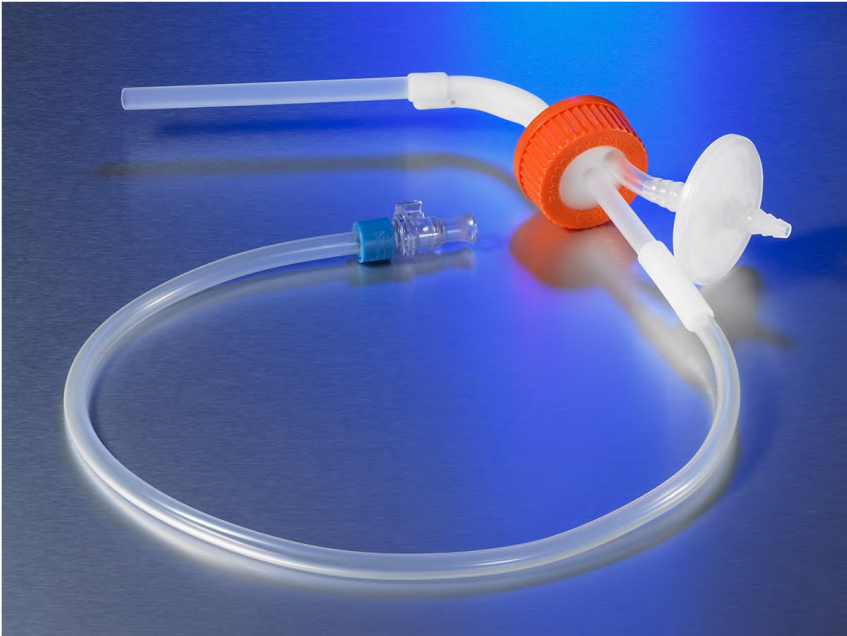
3545 Transfer
3558 Transfer
3562 Transfer
3564 Transfer

Products

Product Number	3546
Product Name	Corning® 1L Disposable Spinner Flask, Solid Cap, Sterile, with MPC Accessory
Qty./Pk	1 / Pk
Qty./Cs	6 / Cs

<b>Product Number</b>	3559
<b>Product Name</b>	Corning® 3L Disposable Spinner Flask, Solid Cap, Sterile, with MPC Accessory
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	3569
<b>Product Name</b>	Corning® 1L Disposable Spinner Flask, Solid Cap and Aseptic Transfer Cap, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	3579
<b>Product Name</b>	Corning® 3L Disposable Spinner Flask, Solid Cap and Aseptic Transfer Cap, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

# Corning® Disposable Aseptic Transfer Cap for Disposable Spinner Flask



Cap Size

1L
3L
500mL

Tubing Connection

Male Luer Lock
Male MPC

Products

Product Number	3528
Product Name	Disposable GL45 Aseptic Transfer Cap for 500 mL Disposable Spinner Flask, 1/4" Dip Tube, 0.2 µm Vent, Medical Grade Polycarbonate, Sterile
Qty./Pk	1 / Pk
Qty./Cs	2 / Cs

<b>Product Number</b>	3545
<b>Product Name</b>	Corning® Disposable Aseptic Transfer Cap for 1L Plastic Spinner Flask, ¼ Dip Tube, 0.2 µm Vent, Male MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3558
<b>Product Name</b>	Corning® Disposable Aseptic Transfer Cap for 3L Plastic Spinner Flask, ¼ Dip Tube, 0.2 µm Vent, Male MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3562
<b>Product Name</b>	Disposable GL45 Aseptic Transfer Cap for 1L Disposable Spinner Flask, 1/8" Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3564
<b>Product Name</b>	Disposable GL45 Aseptic Transfer Cap for 3L Plastic Spinner Flask, 1/8" Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	3565
<b>Product Name</b>	Disposable GL45 Aseptic Transfer Cap for 500 mL Disposable Spinner Flask, 1/8" Dip Tube, 0.2 µm Vent, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

# Corning® Disposable Spinner Flasks



- The Corning disposable spinner flask system comes ready-to-use with a paddle and integrated magnet, reducing the need for time-consuming assembly, cleaning, or reassembly.
- Molded from virgin polystyrene and sterile, each spinner flask system assures a clean sterile unit. No more concerns with detergent residues or contamination.
- The paddle size and height are optimized for each vessel size. A unique integrated magnet provides smooth, even rotation at required speeds on slow-speed stirrers. Heat build-up in the vessel is reduced by means of a specially designed flange that raises the vessel off the stir-plate surface (125 mL and 500 mL flasks only).

Retrofit kits are available for converting older reusable spinner flasks to fit newer dual-bearing impellers.

## Cap Style

<input type="checkbox"/>	Flat
<input type="checkbox"/>	Vent

## Capacity

<input type="checkbox"/>	125 mL
<input type="checkbox"/>	500 mL
<input type="checkbox"/>	1 L
<input type="checkbox"/>	3 L

## Products

Product Number	3152
Product Name	Corning® 125 mL Disposable Spinner Flask with 70 mm Top Cap and 2 Angled Sidearms, Sterile
Qty./Pk	1 / Pk
Qty./Cs	12 / Cs
Product Number	3153
Product Name	Corning® 500 mL Disposable Spinner Flask with 100 mm Top Cap and 2 Angled Sidearms, Sterile
Qty./Pk	1 / Pk
Qty./Cs	12 / Cs
Product Number	3561
Product Name	Corning® 1L Disposable Spinner Flask, Solid Cap, Sterile
Qty./Pk	1 / Pk
Qty./Cs	6 / Cs
Product Number	3563
Product Name	Corning® 3L Disposable Spinner Flask, Solid Cap, Sterile
Qty./Pk	1 / Pk
Qty./Cs	4 / Cs
Product Number	3578
Product Name	Corning® 500 mL Disposable Spinner Flask with Vent Cap and 2 Angled Sidearms, Sterile
Qty./Pk	1 / Pk
Qty./Cs	12 / Cs

Product Number	3580
Product Name	Corning® 1L Disposable Spinner Flask, Vent Cap, Sterile
Qty./Pk	1 / Pk
Qty./Cs	6 / Cs
Product Number	3581
Product Name	Corning® 3L Disposable Spinner Flask, Vent Cap, Sterile
Qty./Pk	1 / Pk
Qty./Cs	4 / Cs



# Corning® Rocker Cell Culture Bags



## Capacity

2 L
10 L
20 L
22 L
50 L

## Products

<b>Product Number</b>	91-200-78
<b>Product Name</b>	Corning® Rocker Cell Culture Bag, 20L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-79
<b>Product Name</b>	Corning® Rocker Cell Culture Bag, 10L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

<b>Product Number</b>	91-200-80
<b>Product Name</b>	Corning® Rocker Cell Culture Bag, 2L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-81
<b>Product Name</b>	Corning® Rocker Cell Culture Bag, 50L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-92
<b>Product Name</b>	Corning® 22 L Rocker Cell Culture Bag
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® Tank Liners

## Capacity

50 L
100 L
130 L
200 L
1,090 L

## Diameter

13 in.
18 in.
22 in.
22.5 in.
42 in.

---

## Products

**Product Number**

91-300-15

**Product Name**

Corning® Tank Liner 50L, Gusseted, 3D

**Qty./Pk**

1 / Pk

**Qty./Cs**

1 / Ea

**Product Number**

91-300-20

**Product Name**

Corning® Tank Liner 130L

**Qty./Pk**

1 / Pk

**Qty./Cs**

1 / Ea

**Product Number**

91-300-25

**Product Name**

Corning® Tank Liner 100L, Gusseted, 3D

**Qty./Pk**

1 / Pk

**Qty./Cs**

1 / Ea

**Product Number**

91-300-30

**Product Name**

Corning® Tank Liner 200L

**Qty./Pk**

1 / Pk

**Qty./Cs**

1 / Ea

**Product Number**

91-300-35

**Product Name**

Corning® Tank Liner 200L, Gusseted, 3D

**Qty./Pk**

1 / Pk

**Qty./Cs**

1 / Ea

**Product Number**

91-300-80

**Product Name**

Corning® Tank Liner 1090L

**Qty./Pk**

1 / Pk

**Qty./Cs**

1 / Ea

# Corning® Collection Bags

Corning collection bags are available in 2D hanging configurations with multiple bag volumes and connector configurations.

## Film Type

EVA
ULDPE

## Capacity

500 mL
1 L
2 L
5 L
10 L
20 L
50 L
100 L
200 L

---

## Products



<b>Product Number</b>	91-200-01
<b>Product Name</b>	Corning® Collection Container 1L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-02
<b>Product Name</b>	Corning® Collection Container 2L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-05
<b>Product Name</b>	Corning® Collection Container 5L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-10
<b>Product Name</b>	Corning® Collection Container 10L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

<b>Product Number</b>	91-200-20
<b>Product Name</b>	Corning® Collection Container 20L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-36
<b>Product Name</b>	Corning® Collection Container 10L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-39
<b>Product Name</b>	Corning® Collection Container 20L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-41
<b>Product Name</b>	Corning® Collection Container 500 mL, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

<b>Product Number</b>	91-200-42
<b>Product Name</b>	Corning® Collection Container 1L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-43
<b>Product Name</b>	Corning® Collection Container 5L, EVA Film
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® Gosselin™ Autoclavable Bags



- Polypropylene (PP) resistant bags
- Thermal resistance 134°C
- Transparent

**Capacity**

3 L
9 L
14 L
21 L
33 L

**Material**

Polypropylene
---------------

**Products**

Product Number	SA03-01
Product Name	Corning® Gosselin™ Autoclavable Bag, 3 L, PP, 40 μm, 500/Case
Qty./Pk	500 / Pk
Qty./Cs	500 / Cs

<b>Product Number</b>	SA03-10
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 3 L, Black Biohazard Logo, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	500 / Cs
<b>Product Number</b>	SA09-01
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 9 L, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	500 / Cs
<b>Product Number</b>	SA09-10
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 9 L, Black Biohazard Logo, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	500 / Cs

<b>Product Number</b>	SA14-01
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 14 L, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	500 / Cs
<b>Product Number</b>	SA14-10
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 14 L, Black Biohazard Logo, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	500 / Cs
<b>Product Number</b>	SA21-01
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 21 L, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	500 / Cs

<b>Product Number</b>	SA21-10
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 21 L, Black Biohazard Logo, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	500 / Cs
<b>Product Number</b>	SA33-01
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 33 L, PP, 40 µm, 500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	500 / Cs
<b>Product Number</b>	SA33-04
<b>Product Name</b>	Corning® Gosselin™ Autoclavable Bag, 33 L, PP, 40 µm, Sterile, 10/Bag, 200/Case
<b>Qty./Pk</b>	200 / Pk
<b>Qty./Cs</b>	200 / Cs



# Corning® Gosselin™ Sampling Bags



White Polystyrene (PS), 1/bag

#### Dimensions

76 mm x 178 mm
114 x 229 mm
125 x 170 mm
140 x 229 mm
150 x 200 mm
Show More

#### Bag Type

Double Pocket Resealable Bag
Metal Closure Bag

## Products

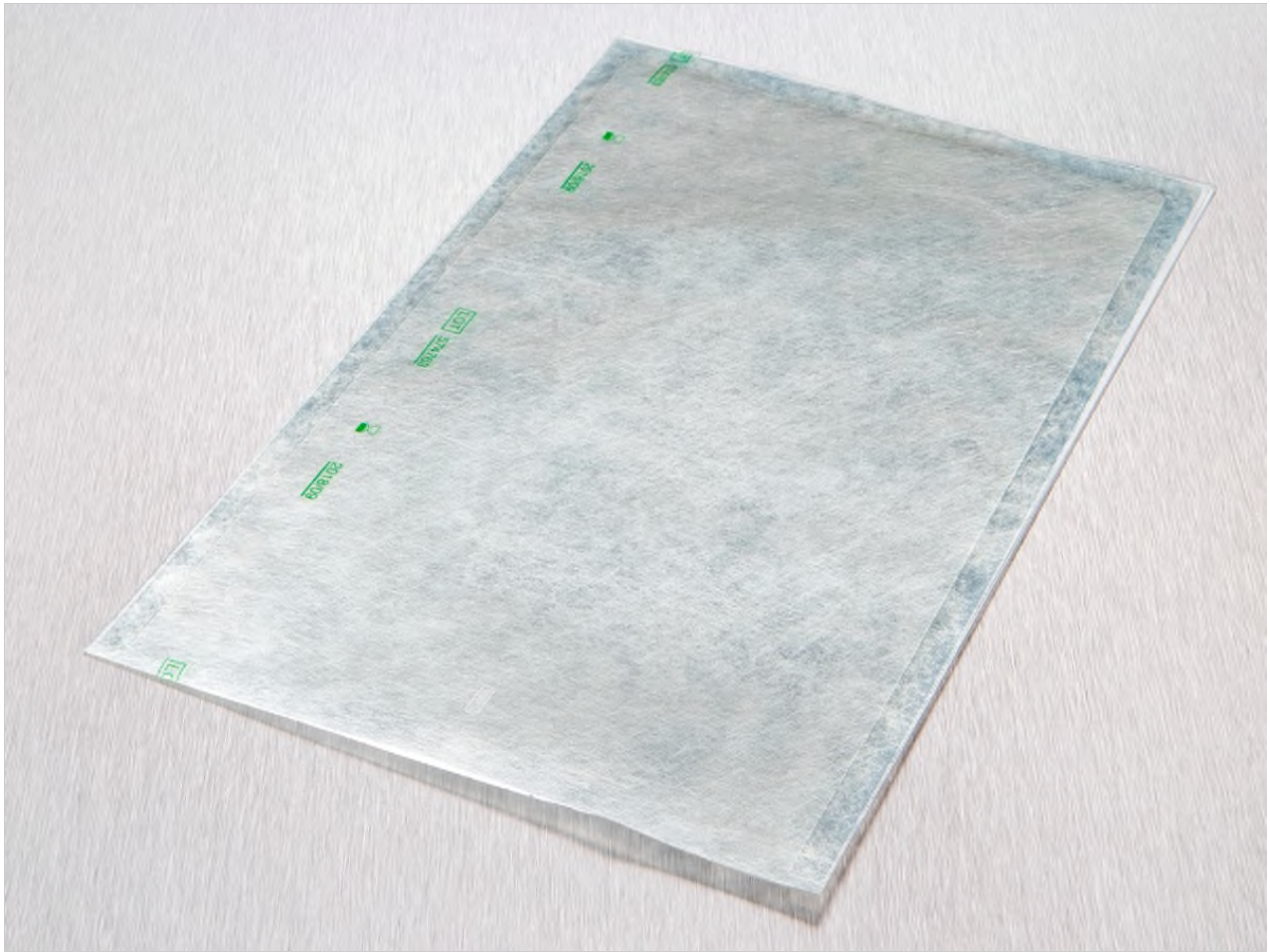
Product Number	SBA1123-01
Product Name	Corning® Gosselin™ Metal Closure Bag, 450 mL, PE, 500/Box, 1000/Case
Qty./Pk	1000 / Pk
Qty./Cs	1000 / Cs

<b>Product Number</b>	SBA1423-01
<b>Product Name</b>	Corning® Gosselin™ Metal Closure Bag, 650 mL, PE, 500/Box, 1000/Case
<b>Qty./Pk</b>	1000 / Pk
<b>Qty./Cs</b>	1000 / Cs
<b>Product Number</b>	SBA1538-01
<b>Product Name</b>	Corning® Gosselin™ Metal Closure Bag, 1065 mL, PE, 500/Box, 1000/Case
<b>Qty./Pk</b>	1000 / Pk
<b>Qty./Cs</b>	1000 / Cs
<b>Product Number</b>	SBAPE1123-01
<b>Product Name</b>	Corning® Gosselin™ Metal Closure Bag, 450 mL, with Writing Area, PE, 500/Box, 1000/Case
<b>Qty./Pk</b>	1000 / Pk
<b>Qty./Cs</b>	1000 / Cs

<b>Product Number</b>	SBAPE1523-01
<b>Product Name</b>	Corning® Gosselin™ Metal Closure Bag, 650 mL, with Writing Area, PE, 500/Box, 1000/Case
<b>Qty./Pk</b>	1000 / Pk
<b>Qty./Cs</b>	1000 / Cs
<b>Product Number</b>	SBAPE1930-01
<b>Product Name</b>	Corning® Gosselin™ Metal Closure Bag, 1650 mL, with Writing Area, PE, 250/Box, 1000/Case
<b>Qty./Pk</b>	1000 / Pk
<b>Qty./Cs</b>	1000 / Cs
<b>Product Number</b>	SBAPE7518-01
<b>Product Name</b>	Corning® Gosselin™ Metal Closure Bag, 120 mL, with Writing Area, PE, 500/Box, 1000/Case
<b>Qty./Pk</b>	1000 / Pk
<b>Qty./Cs</b>	1000 / Cs

<b>Product Number</b>	SP2-01
<b>Product Name</b>	Corning® Gosselin™ Resealable Plastic Bag, Double Pocket, Height 170 mm, Width 125 mm, Blue PE, 4000/Case
<b>Qty./Pk</b>	4000 / Pk
<b>Qty./Cs</b>	4000 / Cs
<b>Product Number</b>	SP2-02
<b>Product Name</b>	Corning® Gosselin™ Resealable Plastic Bag, Double Pocket, Height 170 mm, Width 125 mm, Red PE, 4000/Case
<b>Qty./Pk</b>	4000 / Pk
<b>Qty./Cs</b>	4000 / Cs
<b>Product Number</b>	SP2-05
<b>Product Name</b>	Corning® Gosselin™ Resealable Plastic Bag, Double Pocket, Height 170 mm, Width 125 mm, Yellow PE, 4000/Case
<b>Qty./Pk</b>	4000 / Pk
<b>Qty./Cs</b>	4000 / Cs

# Corning® Gosselin™ Blender Bags



- Polyethylene (PE) bags
- 80 to 3500 mL
- With or without filter
- Traceability on each filter bag
- Sterile

## Capacity

400 mL
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3.5 L
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## Filter Type

Filtered
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Without Filter
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## Products

<b>Product Number</b>	BBAG-03
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 400 mL, Lateral Filter, PE, Sterile, 25/Bag, 500/Box, 1500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	1500 / Cs
<b>Product Number</b>	BBAG-04
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 400 mL, Lateral Filter, PE, Sterile, 50/Bag, 500/Box, 1500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	1500 / Cs
<b>Product Number</b>	FBAG-03
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 400 mL, Full Filter, PE, Sterile, 25/Bag, 500/Box, 1500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	1500 / Cs

<b>Product Number</b>	FBAG-04
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 400 mL, Full Filter, PE, Sterile, 50/Bag, 500/Box, 1500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	1500 / Cs
<b>Product Number</b>	SM1-01
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 80 mL, No Filter, PE, Sterile, 25/Bag, 1500/Box, 4500/Case
<b>Qty./Pk</b>	1500 / Pk
<b>Qty./Cs</b>	4500 / Cs
<b>Product Number</b>	SM2-01
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 400 mL, No Filter, PE, Sterile, 50/Bag, 500/Box, 2500/Case
<b>Qty./Pk</b>	500 / Pk
<b>Qty./Cs</b>	2500 / Cs



<b>Product Number</b>	SM2-02
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 400 mL, No Filter, PE, Sterile, 25/Bag, 500/Box, 2500/Case
<b>Qty./Pk</b>	2500 / Pk
<b>Qty./Cs</b>	2500 / Cs
<b>Product Number</b>	SM3-01
<b>Product Name</b>	Corning® Gosselin™ Blender Bag, 3.5 L, No Filter, PE, Sterile, 25/Bag, 100/Box, 500/Case
<b>Qty./Pk</b>	100 / Pk
<b>Qty./Cs</b>	500 / Cs

# Corning® Filter Adapter Caps [2] and Solid Overcap [1] for Corning® Universal Caps

Product Number 3324



Disclaimer: This product is not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment.

- Overcaps made from polyethylene
- Filter adapter caps have peel-away covers for inserting barbed disc filters for sterile venting with 0.2 µm membrane
- Sterlized by gamma irradiation
- Solid red overcap is used in closed systems or applications where venting is not necessary

## Details

Product Number	3324
Qty./Pk	5 / Pk
Qty./Cs	100 / Cs
Brand	Corning®

# Corning® Disposable Tubing for Use with Bottles



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**For Use With**

Glass Bottles
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Polystyrene Roller Bottles
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**Products**

<b>Product Number</b>	10042
<b>Product Name</b>	Disposable Tubing Set for Use with Glass Bottle, 3/8" ID x 1/2" OD, ADCF*, 18" in Length, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

<b>Product Number</b>	10043
<b>Product Name</b>	Disposable Tubing Set for use with 850cm <sup>2</sup> Polystyrene Roller Bottle, 3/8" ID x 1/2" OD, ADCF*, 0.2 µm filter, MPC* Quick Connect
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

# Corning® Disposable Aseptic Transfer Cap for Corning® CellSTACK Culture Chambers



Cap Style

Filling
Vented Filling

Inner Diameter

3/8 in. Female MPC Coupling
3/8 in. Male MPC Coupling
3/8 in. Tubing
1/8 in. Tubing
1/4 in. Female MPC Coupling
Show More

Products

Product Number	3281
Product Name	Corning® 33 mm Vented Polyethylene Filling Cap with 3/8“ (9.5 mm) ID Tubing and 50 mm Filter with 0.2 µm Pore Hydrophobic Membrane
Qty./Pk	1 / Pk
Qty./Cs	5 / Cs

<b>Product Number</b>	3282
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with 1/8" (3.2 mm) ID Tubing and a Female Luer 1/8" (3.2 mm) Hose Barb with a Male Luer Lock Plug
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	3283
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with 3/8" (9.5 mm) ID Tubing and a 5/16" (7.94 mm) ID Barbed Fitting
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	3284
<b>Product Name</b>	Corning® 33 mm Vented Polyethylene Filling Cap with 1/4" (6.4 mm) ID Tubing and 37 mm Filter with Hydrophobic Glass Fiber Filter
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

<b>Product Number</b>	3328
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with a Female MPC Polycarbonate with a 1/4" (6.4 mm) ID Coupling and a Male MPC Polycarbonate End Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	3329
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with a Female MPC Polycarbonate with a 3/8" (9.5 mm) ID Coupling and a Male MPC Polycarbonate End Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	3333
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with 1/4" (6.4 mm) ID Tubing with a Male MPC Coupling and a Female MPC End Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs



<b>Product Number</b>	3334
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with a Male MPC Polycarbonate with a 1/4" (6.4 mm) ID Coupling and a Female MPC Polycarbonate End Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs
<b>Product Number</b>	3339
<b>Product Name</b>	Corning® 33 mm Polyethylene Filling Cap with a Male MPC Polycarbonate with a 3/8" (9.5 mm) ID Coupling and a Female MPC Polycarbonate End Cap
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	4 / Cs

# Corning® Disposable Aseptic Transfer Cap for Microcarriers Bottles



These are aseptic transfer caps for 100 g and 500 g sizes.

Capacity

100 g
500 g

Tubing Connection

Luer Lock
MPC

Products

Product Number	4626
Product Name	Disposable 45 mm Aseptic Transfer Cap for 100 g Microcarriers Bottles, Male Luer Lock, Sterile
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	4627
Product Name	Disposable 45 mm Aseptic Transfer Cap for 100 g Microcarriers Bottles, MPC, Sterile
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs

<b>Product Number</b>	4628
<b>Product Name</b>	Disposable 48 mm Aseptic Transfer Cap for 500g Microcarriers Bottles, Male Luer Lock, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	4629
<b>Product Name</b>	Disposable 48 mm Aseptic Transfer Cap for 500 g Microcarriers Bottles, MPC, Sterile
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

# Corning® Easy Grip Polystyrene Storage Bottles



## Capacity

150 mL
250 mL
500 mL
1 L

## Tube Length

20 in.
24 in.

## Tubing Connection

Male Luer Lock
Male MPC

## Products

**Product Number**

11650

**Product Name**

Corning® 150 mL Easy Grip Polystyrene Storage Bottles with Dip Tube,  
with 0.2 µm MLL/FLL Filter, MLL

**Qty./Pk**

1 / Pk

**Qty./Cs**

8 / Cs

**Product Number**

11651

**Product Name**

Corning® 150 mL Easy Grip Polystyrene Storage Bottles with Dip Tube,  
with 0.2 µm PTFE Filter, MPC

**Qty./Pk**

1 / Pk

**Qty./Cs**

8 / Cs

**Product Number**

11655

**Product Name**

Corning® 250 mL Easy Grip Polystyrene Storage Bottles with Dip Tube,  
with 0.2 µm MLL/FLL Filter, MLL

**Qty./Pk**

1 / Pk

**Qty./Cs**

6 / Cs



**Product Number**

11656

**Product Name**

Corning® 250 mL Easy Grip Polystyrene Storage Bottles with Dip Tube,  
with 0.2 µm PTFE Filter, MPC

**Qty./Pk**

1 / Pk

**Qty./Cs**

6 / Cs

**Product Number**

11665

**Product Name**

Corning® 500 mL Easy Grip Polystyrene Storage Bottles with Dip Tube,  
with 0.2 µm MLL/FLL Filter, MLL

**Qty./Pk**

1 / Pk

**Qty./Cs**

4 / Cs

**Product Number**

11666

**Product Name**

Corning® 500 mL Easy Grip Polystyrene Storage Bottles with Dip Tube,  
with 0.2 µm PTFE Filter, MPC

**Qty./Pk**

1 / Pk

**Qty./Cs**

4 / Cs

**Product Number**

11680

**Product Name**

Corning® 1000 mL Easy Grip Polystyrene Storage Bottles with Dip  
Tube, with 0.2 µm MLL/FLL Filter, MLL

**Qty./Pk**

1 / Pk

**Qty./Cs**

4 / Cs

**Product Number**

11681

**Product Name**

Corning® 1000 mL Easy Grip Polystyrene Storage Bottles with Dip  
Tube, with 0.2 µm PTFE Filter, MPC

**Qty./Pk**

1 / Pk

**Qty./Cs**

4 / Cs

# Corning® Preassembled Closed Systems Solution Centrifuge Tubes



**Capacity**

50 mL
500 mL

**Dip Tube**

No Dip Tube
Dip Tube

**Products**

<b>Product Number</b>	11705
<b>Product Name</b>	Corning® 50 mL Polypropylene Centrifuge Tube, Self-Standing, with Dip Tube, Sterile, 1 per bag, 2 per case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	11706
<b>Product Name</b>	Corning® 50 mL Polypropylene Centrifuge Tube, Self-Standing, with Accessories, Sterile, 1 per bag, 2 per case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs

<b>Product Number</b>	11750
<b>Product Name</b>	Corning® 500 mL Polypropylene Centrifuge Tube with Plug Seal Cap and Dip Tube, Sterile, 1 per bag, 2 per case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs



# Corning® Cell Expansion Bags

Cell expansion bags are intended for the expansion and culture of non-adherent cells. The bags are made from single-web polyolefin, gas permeable film. The integrated tubing allows for functionally closed system filling, feeding, and sampling.

## Features and Benefits

- Cell expansion observed with multiple cell models
- Gas permeable film
- Reusable sampling valve for in-process testing
- Tubing for sterile weld connections
- Scalable, user friendly

## Capacity

500 mL
1 L
3 L
5 L

## Products

Product Number	91-200-84
Product Name	Corning® Cell Expansion Bag, 500 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

<b>Product Number</b>	91-200-85
<b>Product Name</b>	Corning® Cell Expansion Bag, 1L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-86
<b>Product Name</b>	Corning® Cell Expansion Bag, 3L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-87
<b>Product Name</b>	Corning® Cell Expansion Bag, 5L
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® Cryopreservation Bags

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## Capacity

50 mL
250 mL
500 mL
750 mL

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## Products

Product Number	91-200-88
Product Name	Corning® Cryopreservation Bag, 50 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	91-200-89
Product Name	Corning® Cryopreservation Bag, 250 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

<b>Product Number</b>	91-200-90
<b>Product Name</b>	Corning® Cryopreservation Bag, 500 mL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	91-200-91
<b>Product Name</b>	Corning® Cryopreservation Bag, 750 mL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® Automated Manipulator Platform



The Corning® Automated Manipulator System reduces the costs, time, and variability of manual labor handling associated with Corning CellSTACK® and Corning HYPERStack® processing. The system is programmed to manipulate multiple, large stacks of cell culture vessels into the various positions required to complete the necessary process steps. The operator simply transfers the vessels onto the provided cart, positions the cart into the manipulator system, makes the necessary liquid handling connections and activates the program via the touchscreen user interface. The system supports up to three 40-layer CellSTACK, six ten-layer CellSTACK, or six 36-layer HYPERStack cell culture vessels at a time.

## Features and Benefits

- Greatly simplifies CellSTACK and HYPERStack processing
- Automates filling, equilibration, and harvest
- Enables consistent and scalable process performance
- Improves safety by reducing manual manipulations
- Electric motor drive system
- Vertical, horizontal, and oblique rotation motion
- Built-in shaking application
- Safety features include all-in-one area sensor and hard case cover
- Digital touch-screen operator panel
- Compatible tubing holders
- Compatible microscope station available

## Voltage

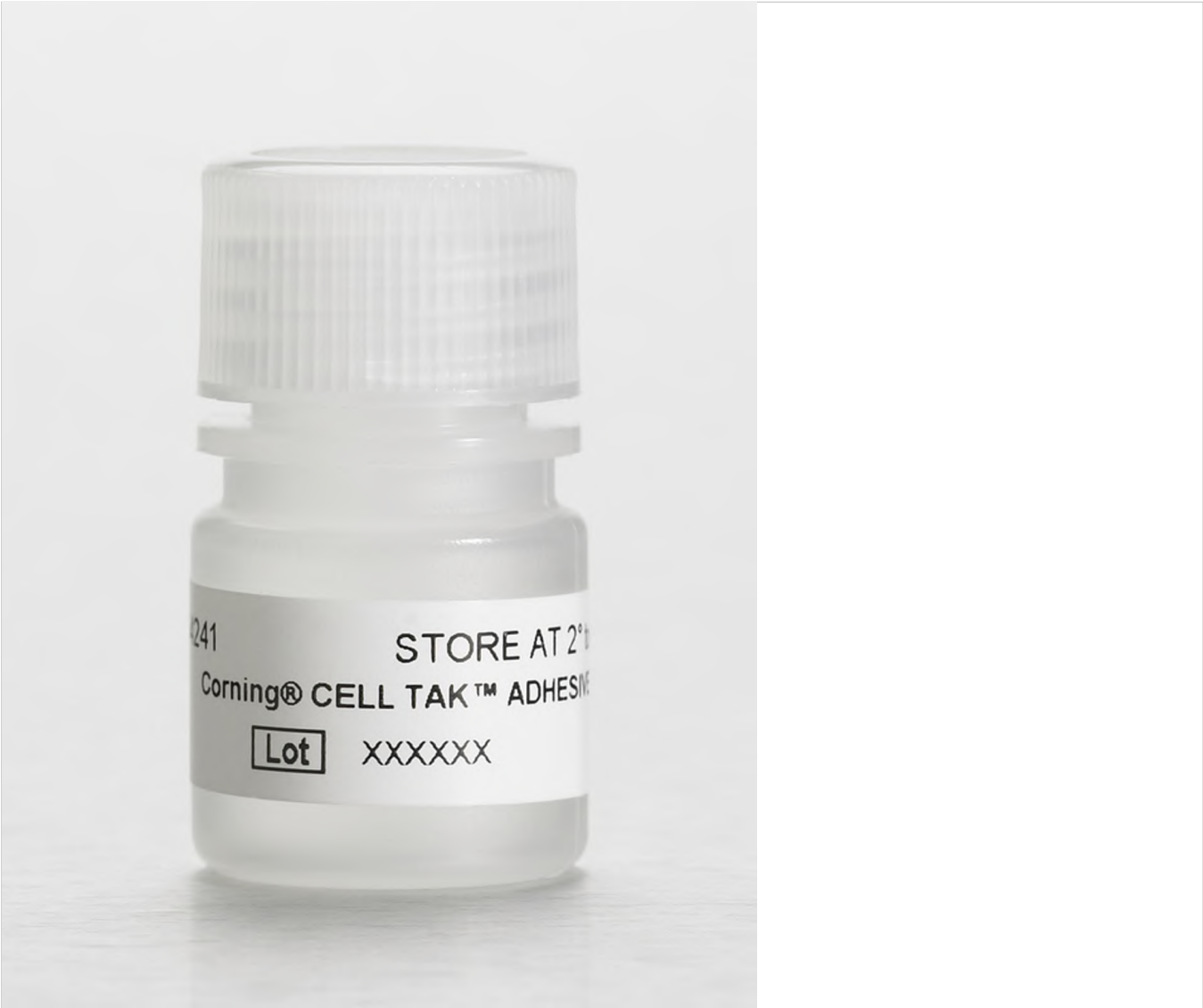
3 Phase AC 180-254V 50/60 Hz

3 Phase AC 360-440V 50/60 Hz

## Products

Product Number	6650
Product Name	Corning® Automatic Manipulator, 180-254V for Corning® CellSTACK® and HYPERStack® Cell Culture Vessels, Standard Power Supply
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	6651
Product Name	Corning® Automatic Manipulator, 360-440V for Corning® CellSTACK® and HYPERStack® Cell Culture Vessels
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs

# Other Corning® ECMs



Corning extracellular matrices (ECMs) enable researchers to mimic *in vivo* environments for 2D and 3D cell culture applications.

Type

Corning PuraMatrix Peptide Hydrogel
Extracellular Matrix, Human
Corning Cell-Tak Cell and Tissue Adhesive
Vitronectin, Human

Size

5 mL
0.25 mg
1 mg
5 mg
10 mg

## Products

Product Number	354237
Product Name	Corning® Extracellular Matrix, Human, 1 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354238
Product Name	Corning® Vitronectin, Human, 0.25mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354240
Product Name	Corning® Cell-Tak™ Cell and Tissue Adhesive, 1 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354241
Product Name	Corning® Cell-Tak™ Cell and Tissue Adhesive, 5mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354242
Product Name	Corning® Cell-Tak™ Cell and Tissue Adhesive, 10 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354250
Product Name	Corning® PuraMatrix™ Peptide Hydrogel, 5 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea



# Corning® and Costar® Cell Culture Flasks



**Surface Area**

<input type="text"/>	25 cm <sup>2</sup>
<input type="text"/>	75 cm <sup>2</sup>
<input type="text"/>	150 cm <sup>2</sup>
<input type="text"/>	175 cm <sup>2</sup>
<input type="text"/>	225 cm <sup>2</sup>

**Surface Treatment**

<input type="text"/>	Corning CellBIND
<input type="text"/>	None
<input type="text"/>	TC-treated
<input type="text"/>	Ultra-Low Attachment

**Flask Style**

<input type="text"/>	Rectangular
<input type="text"/>	U-shaped
<input type="text"/>	Traditional

**Cap Style**

<input type="text"/>	Phenolic
<input type="text"/>	Plug Seal

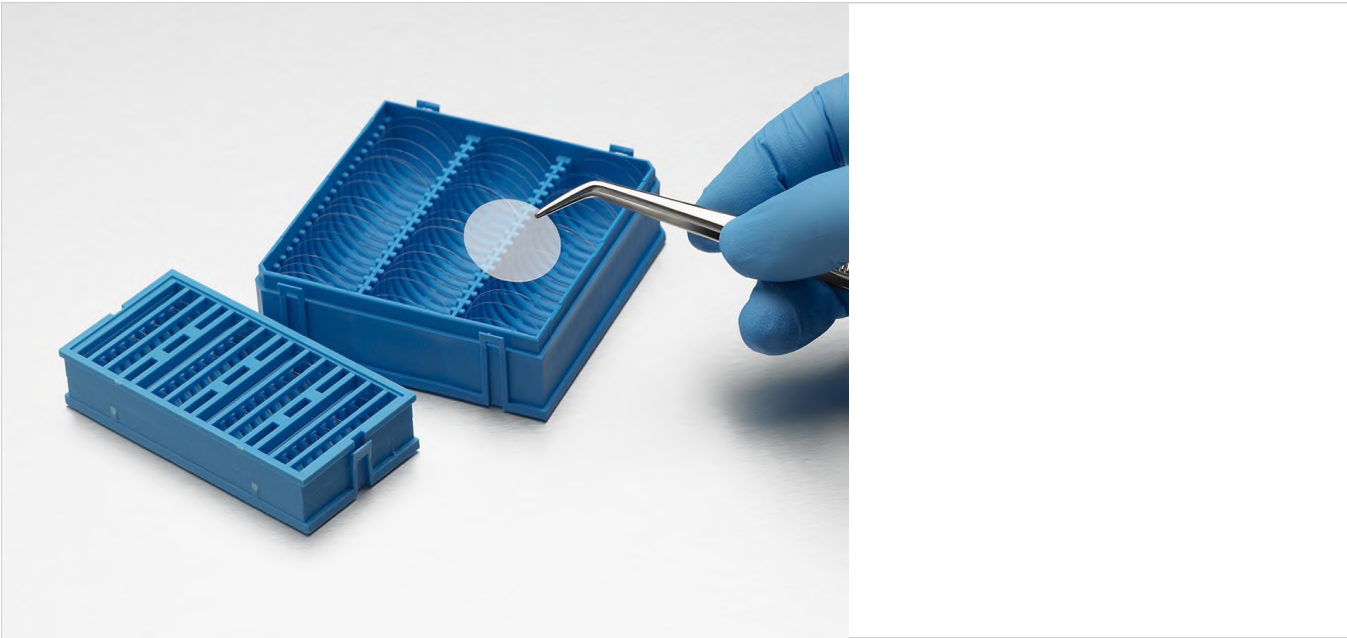
## Products

Product Number	3289
Product Name	Corning® CellBIND® 25cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Vent Cap
Qty./Pk	20 / Pk
Qty./Cs	200 / Cs
Product Number	3290
Product Name	Corning® CellBIND® 75cm <sup>2</sup> U-Shaped Canted Neck Cell Culture Flask with Vent Cap
Qty./Pk	5 / Pk
Qty./Cs	100 / Cs
Product Number	3291
Product Name	Corning® CellBIND® 150cm <sup>2</sup> U-Shaped Canted Neck Cell Culture Flask with Vent Cap
Qty./Pk	5 / Pk
Qty./Cs	50 / Cs
Product Number	3292
Product Name	Corning® CellBIND® 175cm <sup>2</sup> U-Shaped Angled Neck Cell Culture Flask with Vent Cap
Qty./Pk	5 / Pk
Qty./Cs	50 / Cs
Product Number	3292A
Product Name	Corning® CellBIND® 175cm <sup>2</sup> U-Shape Angled Neck Cell Culture Flask with Phenolic-Style Cap
Qty./Pk	5 / Pk
Qty./Cs	50 / Cs

Product Number	3293
Product Name	Corning® CellBIND® 225cm <sup>2</sup> Angled Neck Cell Culture Flask with Vent Cap
Qty./Pk	5 / Pk
Qty./Cs	25 / Cs
Product Number	3814
Product Name	Corning® Ultra-Low Attachment 75cm <sup>2</sup> U-Flask Canted Neck Cell Culture Flask with Vent Cap
Qty./Pk	4 / Pk
Qty./Cs	24 / Cs
Product Number	430168
Product Name	Corning® 25cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Plug Seal Cap
Qty./Pk	20 / Pk
Qty./Cs	500 / Cs
Product Number	430372
Product Name	Corning® 25cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Phenolic-Style Cap
Qty./Pk	20 / Pk
Qty./Cs	500 / Cs
Product Number	430639
Product Name	Corning® 25cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Vent Cap
Qty./Pk	20 / Pk
Qty./Cs	200 / Cs

Corning® BioCoat® Collagen I 22 mm Round #1 German Glass Coverslip, Bulk Packed, 60/Case

Product Number 354089



Corning® BioCoat™ 22mm #1 German Glass coverslip with a uniform application of rat tail collagen. Bulk packed, 60/case. Corning BioCoat products are an ideal solution for enhanced cell attachment and growth of a variety of primary cells and transformed cells in serum-free or serum-containing cultures. Corning offers custom coating capabilities.

Shelf life: >= 3 months from date of shipment

Details

Product Number	354089
Qty./Pk	60 / Pk
Qty./Cs	60 / Cs
Brand	Corning®
Size	22 mm
Storage	2° - 8°C
Surface Coating	Collagen I

# Corning® Matrigel® Matrix



Corning extracellular matrices (ECMs) enable researchers to mimic *in vivo* environments for 2D and 3D cell culture applications.

Corning Matrigel matrix is a solubilized basement membrane preparation extracted from the Engelbreth-Holm-Swarm (EHS) mouse sarcoma, a tumor rich in extracellular matrix proteins, including Laminin (a major component), Collagen IV, heparan sulfate proteoglycans, entactin/nidogen, and a number of growth factors.

Size	
	5 mL
	10 mL
	25 mL
	50 mL
	100 mL

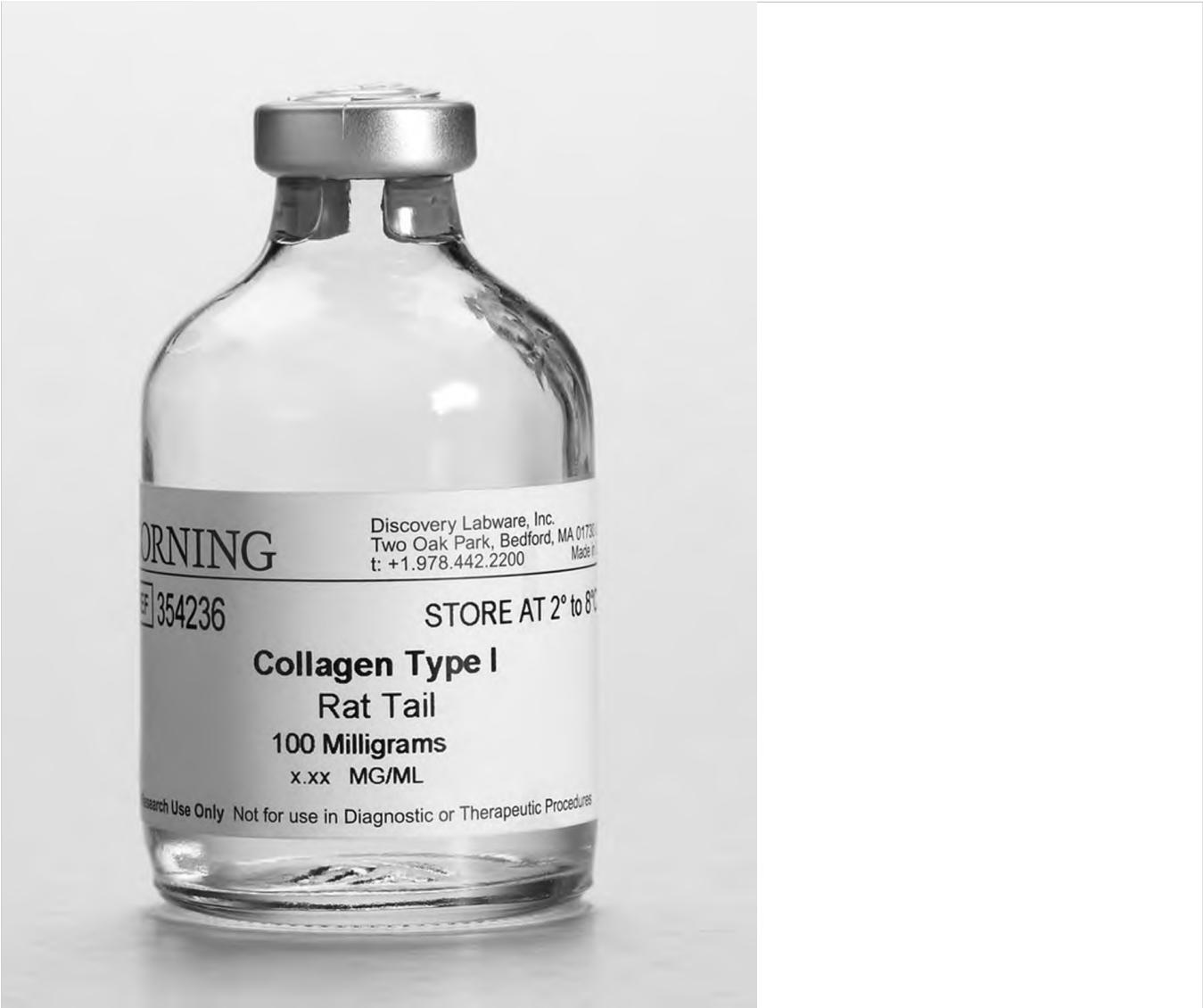
Type	
	Matrigel Matrix LDEV-Free
	Matrigel Matrix Phenol Red-Free, LDEV-Free
	Matrigel Matrix GFR, LDEV-Free
	Matrigel Matrix GFR, Phenol Red-Free, LDEV-Free
	Matrigel Matrix High Concentration, LDEV-Free
	Matrigel Matrix High Concentration, Phenol Red-Free, LDEV-Free
	Matrigel Matrix High Concentration, GFR, LDEV-Free
	Matrigel Matrix hESC-Qualified, LDEV-Free
	Matrigel Matrix for Organoid Culture, Phenol Red-free, LDEV-free

## Products

Product Number	354230
Product Name	Corning® Matrigel® Growth Factor Reduced (GFR) Basement Membrane Matrix, LDEV-free, 10 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	354234
Product Name	Corning® Matrigel® Basement Membrane Matrix, LDEV-free, 10 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	354248
Product Name	Corning® Matrigel® Basement Membrane Matrix High Concentration (HC), LDEV-free, 10 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	354262
Product Name	Corning® Matrigel® Matrix High Concentration (HC), Phenol-Red Free, LDEV-free, 10 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	354263
Product Name	Corning® Matrigel® Matrix High Concentration (HC), Growth Factor Reduced (GFR) *LDEV-free, 10 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs

<b>Product Number</b>	354277
<b>Product Name</b>	Corning® Matrigel® hESC-Qualified Matrix, LDEV-free, 5 mL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	356230
<b>Product Name</b>	Corning® Matrigel® Growth Factor Reduced (GFR) Basement Membrane Matrix, LDEV-free, 5 mL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	356231
<b>Product Name</b>	Corning® Matrigel® Growth Factor Reduced (GFR) Basement Membrane Matrix, Phenol Red-free, LDEV-free, 10 mL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	356232
<b>Product Name</b>	Corning® Matrigel® Basement Membrane Matrix, LDEV-free, 25 mL, 1/Pack 5/Case
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	356234
<b>Product Name</b>	Corning® Matrigel® Basement Membrane Matrix, LDEV-free, 5 mL
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

# Corning® Collagen



Corning extracellular matrices (ECMs) enable researchers to mimic *in vivo* environments for 2D and 3D cell culture applications.

Corning offers a broad range of collagen types that are derived from multiple species. These collagens have been used to culture a variety of cell types to promote adhesion, growth, and/or differentiation.

Size	
	500 µg
	0.25 mg
	1 mg
	5 mg
	10 mg
	30 mg
	100 mg
Type	
	Collagen I, Bovine
	Collagen I, Human



Collagen I, Rat Tail
Collagen I, Rat Tail, High Concentration
Collagen I, Rat Tail, 1 g
Collagen II, Bovine
Collagen III, Human
Collagen IV, Human
Collagen IV, Mouse
Collagen IV, Mouse, 10 mg
Collagen V, Human
Collagen VI, Human

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## Products

Product Number	354231
Product Name	Corning® Collagen I, Bovine, 30 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354233
Product Name	Corning® Collagen IV, Mouse, 1 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354236
Product Name	Corning® Collagen I, Rat Tail, 100 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

<b>Product Number</b>	354243
<b>Product Name</b>	Corning® Collagen I, Human, 0.25 mg
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	354244
<b>Product Name</b>	Corning® Collagen III, Human, 0.25mg
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	354245
<b>Product Name</b>	Corning® Collagen IV, Human, 0.25 mg
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	354246
<b>Product Name</b>	Corning® Collagen V, Human, 0.25 mg
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	354249
<b>Product Name</b>	Corning® Collagen I, High Concentration, Rat Tail, 100 mg
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	354257
<b>Product Name</b>	Corning® Collagen II, Bovine, 5mg
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

Product Number	354261
Product Name	Corning® Collagen VI, Human, 500µg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

# Corning® rLaminin-521 (Human)



Corning extracellular matrices (ECMs) enable researchers to mimic *in vivo* environments for 2D and 3D cell culture applications.

Corning rLaminin-521 is the next generation pluripotent stem cell (PSC) surface that enables researchers to streamline culture workflow, lower contamination risk, and scale-up efficiently. Corning has partnered with BioLamina for the supply of recombinant human Laminin 521 (rLaminin-521), a biocompatible, full length Laminin that enables feeder-free, clump-free, single-cell passaging of PSCs without ROCK-inhibitor.

Type

rLaminin-521, Human
rLaminin-521, Human, 1 mg
rLaminin-521, Human, 5 mg

Size

500 µg
100 mg

Products

Product Number	354221
Product Name	Corning® rLaminin-521, Human, 100µg Vial
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

Product Number	354222
Product Name	Corning® rLaminin-521, Human, 1 mg (10 x 100µg Vials)
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354223
Product Name	Corning® rLaminin-521, Human, 5 mg (10 x 500µg Vials)
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354224
Product Name	Corning® rLaminin-521, Human, 500µg Vial
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

# Corning® BioCoat® Poly-D-Lysine Flasks



Poly-D-Lysine (PDL) and Poly-L-Lysine (PLL) are synthetic compounds that enhance cell adhesion and protein absorption by altering surface charges on the culture substrate. In addition to promoting cell adhesion, poly-lysine surface treatments support neurite outgrowth and improve the survival of many central nervous system (CNS) primary cells in culture. As PDL and PLL are synthetic molecules, they do not stimulate biological activity in the cells cultured on them, and they do not introduce impurities carried by natural polymers.

**Applications include:**

- Attachment and spreading of a variety of cell types
- Cell differentiation and neurite outgrowth
- Attachment of fastidious transfected cell lines
- Support survival of primary neurons in culture
- Serum-free or reduced-serum culture

**Source**

- PDL, synthetic (MW 75-150 kD)
- PLL, synthetic (MW 30-70 kD)

**Quality Control**

- Tested for ability to promote firm attachment of RCG cells
- Tested and found negative for bacteria and fungi

**Storage**

- 4°C to 30°C under dry conditions.

**Qty/Cs**

5/Cs
10/Cs

40/Cs
50/Cs
<b>Surface Area</b>
25 cm <sup>2</sup>
75 cm <sup>2</sup>
150 cm <sup>2</sup>
175 cm <sup>2</sup>

## Products

<b>Product Number</b>	354536
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 25cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Vented Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	10 / Cs
<b>Product Number</b>	354537
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 75cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Vented Cap
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	354538
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 150cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Vented Cap
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	5 / Cs

<b>Product Number</b>	354539
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 175cm² Rectangular Straight Neck Cell Culture Flask with Vented Cap
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	5 / Cs
<b>Product Number</b>	356536
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 25cm² Rectangular Canted Neck Cell Culture Flask with Blue Vented Screw Cap
<b>Qty./Pk</b>	10 / Pk
<b>Qty./Cs</b>	50 / Cs
<b>Product Number</b>	356537
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 75cm² Rectangular Canted Neck Cell Culture Flask with Vented Cap
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	50 / Cs
<b>Product Number</b>	356538
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 150cm² Rectangular Canted Neck Cell Culture Flask with Vented Cap
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	40 / Cs
<b>Product Number</b>	356539
<b>Product Name</b>	Corning® BioCoat® Poly-D-Lysine 175cm² Flask with Vented Cap
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	40 / Cs



# Corning® BioCoat® Gelatin Flasks



Corning BioCoat Gelatin cultureware provides an attachment and growth promoting substrate for the culture of a variety of cell types. Gelatin is commonly used in the culture of vascular endothelial cells, muscle, embryonic stem (ES) cells, and F9 teratocarcinoma cells. It is also suitable for promoting adhesion of transfected cell types. Gelatin is a heterogeneous mixture of water-soluble proteins derived through the hydrolysis of Collagen.

## Applications include:

- Promotion of cell attachment and spreading
- Culture of normal and transfected F9 teratocarcinoma cells for gene expression studies
- Culture of HUVEC for E-Selectin<sup>7</sup> expression and VEGF induction<sup>8</sup>

## Source

- Gelatin, porcine

## Quality Control

- Tested for ability to promote proliferation of HUVECs
- Tested and found negative for bacteria and fungi

## Storage

- 4°C to 30°C under dry conditions.

## Qty/Cs

5/Cs
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50/Cs
-------

Products

Product Number	354488
Product Name	Corning® BioCoat® Gelatin 75cm² Rectangular Canted Neck Cell Culture Flask with Vented Cap
Qty./Pk	5 / Pk
Qty./Cs	5 / Cs
Product Number	356488
Product Name	Corning® BioCoat® Gelatin 75cm² Rectangular Canted Neck Cell Culture Flask with Vented Cap
Qty./Pk	5 / Pk
Qty./Cs	50 / Cs

# Corning® BioCoat® Gelatin Plates



Corning BioCoat Gelatin cultureware provides an attachment and growth promoting substrate for the culture of a variety of cell types. Gelatin is commonly used in the culture of vascular endothelial cells, muscle, embryonic stem (ES) cells, and F9 teratocarcinoma cells. It is also suitable for promoting adhesion of transfected cell types. Gelatin is a heterogeneous mixture of water-soluble proteins derived through the hydrolysis of Collagen.

**Applications include:**

- Promotion of cell attachment and spreading
- Culture of normal and transfected F9 teratocarcinoma cells for gene expression studies
- Culture of HUVEC for E-Selectin7 expression and VEGF induction8

**Source**

- Gelatin, porcine

**Quality Control**

- Tested for ability to promote proliferation of HUVECs
- Tested and found negative for bacteria and fungi

**Storage**

- 4°C to 30°C under dry conditions.

**Qty/Cs**

5/Cs
50/Cs

## Products

Product Number	354652
Product Name	Corning® BioCoat® Gelatin 6-well Clear Flat Bottom TC-treated Multiwell Plate, with Lid, 5/Case
Qty./Pk	5 / Pk
Qty./Cs	5 / Cs

<b>Product Number</b>	356652
<b>Product Name</b>	Corning® BioCoat® Gelatin 6-well Clear Flat Bottom TC-treated Multiwell Plate, with Lid, 5/Pack, 50/Case
<b>Qty./Pk</b>	5 / Pk
<b>Qty./Cs</b>	50 / Cs

# Corning® Treated Culture Dishes



- Corning® CellBIND® surface is a novel cell culture treatment that increases surface wettability for more even and consistent cell attachment
- Ultra-Low Attachment surface dishes feature a covalently bound hydrogel layer that minimizes cell attachment, protein absorption, and cellular activation
- 10 dishes/bag are available for 100 mm dishes (Cat. No. 430293)
- 245 mm square dishes offer 500 cm<sup>2</sup> growth surface
- Stacking beads aid in handling
- Vents provide consistent gas exchange
- Manufactured from optically clear virgin polystyrene
- Sterile
- Nonpyrogenic

Dish style (mm) = actual growth surface diameters: 35 mm dish = 34.4 mm; 60 mm dish = 52.1 mm; 100 mm dish = 83.8 mm; 150 mm dish = 139.1 mm.

Cat. no. 431110, Square dishes with interior bottom dimensions of 224 x 224 mm.

## Surface Treatment

Corning CellBIND
TC-treated
Ultra-Low Attachment

## Dimensions

35 x 10 mm
60 x 15 mm
60 x 60 mm
100 x 20 mm
150 x 25 mm
245 x 245 x 25 mm

## Grid

No
Yes

Qty/Pk

10/Pk
20/Pk
4/Pk
5/Pk
7/Pk
5/Bag

Products

Product Number	3261
Product Name	Corning® 60 mm Ultra-Low Attachment Culture Dish
Qty./Pk	5 / Pk
Qty./Cs	20 / Cs

Product Number	3294
Product Name	Corning® CellBIND® Surface 35 mm Culture Dish
Qty./Pk	10 / Pk
Qty./Cs	210 / Cs

Product Number	3295
Product Name	Corning® CellBIND® Surface 60 mm Culture Dish
Qty./Pk	7 / Pk
Qty./Cs	126 / Cs

Product Number	3296
Product Name	Corning® CellBIND® Surface 100 mm Culture Dish
Qty./Pk	5 / Pk
Qty./Cs	40 / Cs
Product Number	430165
Product Name	Corning® 35 mm TC-treated Culture Dish
Qty./Pk	20 / Pk
Qty./Cs	500 / Cs
Product Number	430166
Product Name	Corning® 60 mm TC-treated Culture Dish
Qty./Pk	20 / Pk
Qty./Cs	500 / Cs
Product Number	430167
Product Name	Corning® 100 mm TC-treated Culture Dish
Qty./Pk	20 / Pk
Qty./Cs	500 / Cs
Product Number	430196
Product Name	Corning® 60 mm with 2 mm Grid TC-treated Culture Dish
Qty./Pk	20 / Pk
Qty./Cs	500 / Cs
Product Number	430293
Product Name	Corning® 100 mm TC-treated Culture Dishes, 10/Pack
Qty./Pk	10 / Pk
Qty./Cs	480 / Cs

Product Number	430599
Product Name	Corning® 150 mm TC-treated Culture Dish
Qty./Pk	5 / Pk
Qty./Cs	60 / Cs



# Corning® Fibronectin



Corning extracellular matrices (ECMs) enable researchers to mimic *in vivo* environments for 2D and 3D cell culture applications.

The principal functions of fibronectin appear to be in cellular migration during wound healing and development, regulation of cell growth and differentiation, and haemostasis/thrombosis.

Type

Fibronectin, Human

Fibronectin, Human, 25 mg

Size

1 mg

5 mg

---

## Products

Product Number	354008
Product Name	Corning® Fibronectin, Human, 1 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	356008
Product Name	Corning® Fibronectin, Human, 5 mg
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	356009
Product Name	Corning® Fibronectin, Human, 25 mg (5 X 5 mg)
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

# Products for Cell Release and Recovery from ECMs



Corning extracellular matrices (ECMs) enable researchers to mimic *in vivo* environments for 2D and 3D cell culture applications.

Type

Dispase
Cell Recovery Solution

Size

100 mL
500 mL

---

## Products

Product Number	354235
Product Name	Corning® Dispase, 100 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354253
Product Name	Corning® Cell Recovery Solution, 100 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea
Product Number	354270
Product Name	Corning® Cell Recovery Solution, 500 mL
Qty./Pk	1 / Pk
Qty./Cs	1 / Ea

# Corning® BioCoat® Fibronectin-coated Flasks



Human Fibronectin (HFN) is a widely distributed glycoprotein that is used as a substrate to promote attachment of cells through its central-binding domain RGD sequence. HFN is a product of most mesenchymal and epithelial cells and is present in both the ECM and plasma. The principal function of HFN appears to be in cellular migration during wound healing and development, regulation of cell growth and differentiation, and haemostasis/thrombosis.

## Applications include:

- Promotion of cell attachment and spreading
- Rapid expansion of cell populations
- Serum-free or reduced-serum culture
- Cell adhesion assays
- Studies of effects of HFN on cell behavior
- Improving survival of primary cells in culture

## Source

- Human plasma

NOTE: Source material tested for hepatitis B antigen and HIV-1 antibody

## Quality Control

- Tested for ability to promote attachment and spreading of BHK-21 hamster kidney cells
- Tested and found negative for bacteria and fungi
- Fibronectin purity >90% by SDS-PAGE

## Storage

- 2°C to 8°C. Do not freeze.

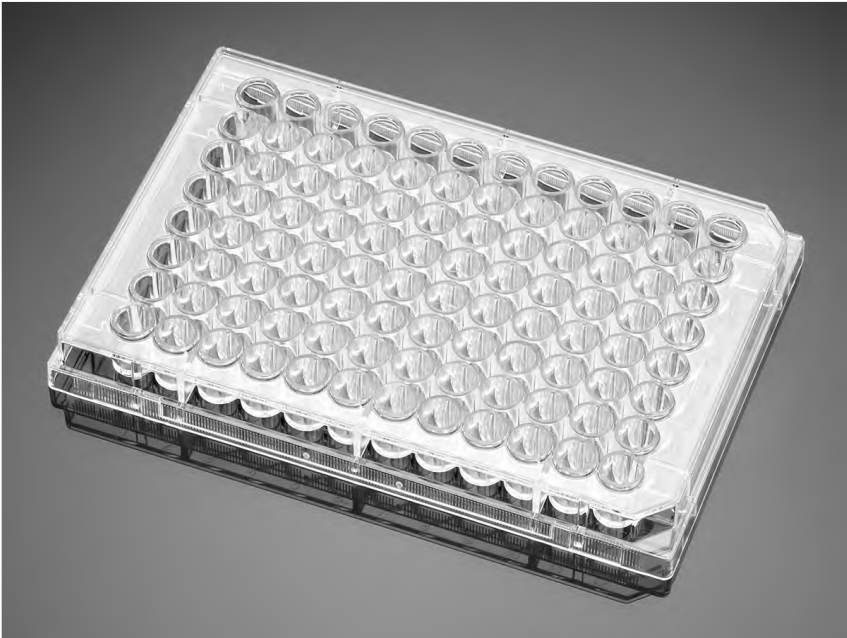
## Surface Area

75 cm <sup>2</sup>
175 cm <sup>2</sup>

Products

Product Number	354521
Product Name	Corning® BioCoat® Fibronectin 75cm <sup>2</sup> Rectangular Canted Neck Cell Culture Flask with Plug Seal Cap
Qty./Pk	5 / Pk
Qty./Cs	10 / Cs
Product Number	354526
Product Name	Corning® BioCoat® Fibronectin 175cm <sup>2</sup> Rectangular Straight Neck Cell Culture Flask with Plug Seal Cap
Qty./Pk	5 / Pk
Qty./Cs	5 / Cs

# Corning® BioCoat® Gelatin Microplates



Corning BioCoat Gelatin cultureware provides an attachment and growth promoting substrate for the culture of a variety of cell types. Gelatin is commonly used in the culture of vascular endothelial cells, muscle, embryonic stem (ES) cells, and F9 teratocarcinoma cells. It is also suitable for promoting adhesion of transfected cell types. Gelatin is a heterogeneous mixture of water-soluble proteins derived through the hydrolysis of Collagen.

**Applications include:**

- Promotion of cell attachment and spreading
- Culture of normal and transfected F9 teratocarcinoma cells for gene expression studies
- Culture of HUVEC for E-Selectin7 expression and VEGF induction8

**Source**

- Gelatin, porcine

**Quality Control**

- Tested for ability to promote proliferation of HUVECs
- Tested and found negative for bacteria and fungi

**Storage**

- 4°C to 30°C under dry conditions.

**Qty/Cs**

5/Cs
50/Cs

## Products

Product Number	354689
Product Name	Corning® BioCoat® Gelatin 96-well Clear Flat Bottom Microplate, with Lid, 5/Case
Qty./Pk	5 / Pk
Qty./Cs	5 / Cs

Product Number	356689
Product Name	Corning® BioCoat® Gelatin 96-well Clear Flat Bottom Assay Plate, with Lid, 5/Pack, 50/Case
Qty./Pk	5 / Pk
Qty./Cs	50 / Cs



# Corning® BioCoat® Poly-L-Ornithine/Laminin Plates



For some applications, the use of a combination of ECM proteins, such as Laminin (LM) and Fibronectin (HFN) or LM and attachment factors such as Poly-D-lysine (PDL) or Poly-L-Ornithine (PLO) has been shown superior to the use of either alone. Corning BioCoat PDL/LM and PLO/LM Cultureware is suitable for culturing many different types of Peripheral Nervous System (PNS) and Central Nervous System (CNS) networks and is useful for promoting neural cell attachment and differentiation. Corning BioCoat LM/HFN Cultureware provides an *in vitro* environment that promotes cell attachment and extensive process formation.

## Applications include:

- Enhancement of neuronal cell attachment to plastic and glass
- Promotion of neurite outgrowth
- Culture of glial cells as a feeder layer for neurons
- Construction of neural cell model systems to study CNS function, development, and diseases

## Source

- PDL, synthetic (MW 75-150 kD)
- PLO, synthetic (MW 30-70 kD)
- Laminin, EHS mouse tumor
- Fibronectin, human plasma
- NOTE: Source material tested for hepatitis B antigen and HIV-1 antibody.
- **Quality Control**
  - PDL/LM and PLO/LM tested for ability to initiate differentiation (neurite outgrowth) of NG-108 rat glioma/mouse neuroblastoma cells
  - LM/HFN tested for receptor agonist induced changes in intracellular calcium using Fluo-3A (a long wavelength fluorescent calcium indicator) in primary rat cortical neuron enriched cultures
  - Tested and found negative for bacteria and fungi

## Storage

- 2° to 8°C. Do not freeze.

## Well Number

	6-well
	24-well

## Products

Product Number	354658
Product Name	Corning® BioCoat® Poly-L-Ornithine/Laminin 6-well Clear Flat Bottom TC-treated Multiwell Plate, with Lid, 5/Case
Qty./Pk	1 / Pk
Qty./Cs	5 / Cs
Product Number	354659
Product Name	Corning® BioCoat® Poly-L-Ornithine/Laminin 24-well Clear Flat Bottom TC-treated Multiwell Plate, with Lid, 5/Case
Qty./Pk	1 / Pk
Qty./Cs	5 / Cs

# Corning® MEM (Minimum Essential Medium) Alpha Medium



## Formulation

with Earle's Salts and L-glutamine, without Ribonucleosides, Deoxyribonucleosides, and Sodium Bicarbonate

[+] Earles Salts; [-] Ribonucleosides, Deoxyribonucleosides, L-glutamine

with Earle's Salts, Ribonucleosides, Deoxyribonucleosides, and L-glutamine

## Size

500 mL

50 L

## Products

<b>Product Number</b>	10-022-CV
<b>Product Name</b>	Corning® 500 mL MEM (Minimum Essential Medium) Alpha Medium
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	15-012-CV
<b>Product Name</b>	Corning® 500 mL MEM (Minimum Essential Medium) Alpha Medium
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	50-012-PC
<b>Product Name</b>	Corning® 50L MEM (Minimum Essential Medium) Alpha Medium, Powder
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® DMEM (Dulbecco's Modified Eagle's Medium)



## Growth Promotion and Cytotoxicity

Corning classical media products undergo a variety of tests to determine functionality and toxicity using growth-promotion analysis. Product performance is measured by harvest-to-plant ratios or fold increase according to predetermined specifications.

## Physiochemical Properties

Liquid and powder classical media products are tested to determine pH and osmolality. Classical media powders are also tested for residual moisture. The pH and osmolality tests are performed according to specific procedures in which all equipment is calibrated using standards traceable to the National Institute of Standards and Technology.

## Biological Tests

Quality release testing of Corning liquid classical media products assures low levels of endotoxin, mycoplasma, and an absence of contamination.

## Endotoxin

Classical media products are tested for bacterial endotoxin using the Limulus Amoebocyte Lysate (LAL) chromogenic assay. For release, each lot of standard liquid classical media must have an endotoxin level of <0.25 EU/mL. Classical media powder products must have an endotoxin level of <0.25 EU/mL when reconstituted to formula weight with low endotoxin water.

## Sterility

All Corning liquid classical media products are tested for sterility.

## Mycoplasma

Liquid classical media products are tested for mycoplasma using a large-volume method.

## Formulation

without Glucose, with L-glutamine and Sodium Pyruvate

with 1 g/L Glucose, Sodium Pyruvate and L-glutamine

with 25mM HEPES, 4.5 g/L Glucose, and L-glutamine, without Sodium Pyruvate

with 4.5 g/L Glucose and L-glutamine, without Sodium Pyruvate

with 4.5 g/L Glucose and L-glutamine, without Sodium Pyruvate and Sodium Bicarbonate

with 4.5g/L Glucose, L-glutamine, and Sodium Pyruvate

with 4.5 g/L Glucose, L-glutamine, and Sodium Pyruvate, without Sodium Bicarbonate

[+] 4.5g/L Glucose, L-glutamine, Sodium Pyruvate; [-] Sodium Bicarbonate

with 4.5 g/L Glucose, without L-glutamine and Sodium Pyruvate

with 4.5 g/L Glucose, without L-glutamine, Sodium Pyruvate, and Phenol Red

with 4.5 g/L Glucose, Sodium Pyruvate, and 25 mM HEPES, without L-glutamine

with 4.5g/L Glucose and Sodium Pyruvate, without L-glutamine

with 4.5 g/L Glucose and Sodium Pyruvate, without L-glutamine, L-methionine, and L-cystine

with 4.5 g/L Glucose and Sodium Pyruvate, without L-glutamine and Phenol Red

with 4.5/L Glucose and Sodium Pyruvate, without L-glutamine

[+] Corning glutagro Supplement, 4.5 g/L Glucose, Phenol; [-] Sodium Pyruvate

[+] Corning Glutagro Supplement, 4.5 g/L Glucose, Sodium Pyruvate, Phenol Red

## Shelf Life

12 Months
18 Months
36 Months

Size

100 mL
500 mL
1 L
10 L
20 L
50 L

Products

Product Number	10-013-CM
Product Name	Corning® 1L DMEM (Dulbecco's Modified Eagle's Medium)
Qty./Pk	6 / Pk
Qty./Cs	6 / Cs

<b>Product Number</b>	10-013-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-013-LB
<b>Product Name</b>	Corning® 20L DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	10-013-LX
<b>Product Name</b>	Corning® 10L DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea



<b>Product Number</b>	10-014-CM
<b>Product Name</b>	Corning® 1L DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-014-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-017-CM
<b>Product Name</b>	Corning® 1L DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs

<b>Product Number</b>	10-017-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-027-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-101-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modification of Eagle's Medium), 1X
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs

# Corning® Improved MEM (Richter's Modification), 1X



## Formulation

with Earle's Salts and L-glutamine, without Sodium Bicarbonate

with Earle's Salts, L-glutamine, and Nonessential Amino Acids, without Sodium Bicarbonate

## Size

10 L

50 L

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## Products

<b>Product Number</b>	10-024-CV
<b>Product Name</b>	Corning® 500 mL Improved MEM (Richter's Mod.)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-026-CV
<b>Product Name</b>	Corning® 500 mL Improved MEM (Richter's Mod.)
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs

# Ham's F-12 Medium



## Formulation

with 25 mM HEPES, without Alpha-thioglycerol, Beta-mercaptoethanol, and L-glutamine

with 25 mM HEPES, without Alpha-thioglycerol, Beta-mercaptoethanol, and Sodium Bicarbonate

with L-glutamine and 25 mM HEPES, without Alpha-thioglycerol and Beta-mercaptoethanol

## Size

500 mL

10 L

## Products

<b>Product Number</b>	10-080-CM
<b>Product Name</b>	Corning® 1L Hams F-12 Medium
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-080-CV
<b>Product Name</b>	Corning® 500 mL Hams F-12 Medium
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	50-040-PB
<b>Product Name</b>	Corning® 10L Hams F-12 Medium, Powder
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix



## Formulation

Corning glutagro

with L-glutamine

with L-glutamine and 15 mM HEPES

with L-glutamine, without PhenolRed

without Sodium Bicarbonate, L-glutamine, and Phenol Red

## Shelf Life

12 Months

18 Months

36 Months
Size
500 mL
1 L
10 L

### Products

Product Number	10-090-CM
Product Name	Corning® 1L DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix
Qty./Pk	6 / Pk
Qty./Cs	6 / Cs
Product Number	10-090-CV
Product Name	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix
Qty./Pk	6 / Pk
Qty./Cs	6 / Cs



<b>Product Number</b>	10-092-CM
<b>Product Name</b>	Corning® 1L DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-092-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-103-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs

<b>Product Number</b>	15-090-CM
<b>Product Name</b>	Corning® 1L DMEM (Dulbecco's Modified Eagle's Medium)/F12 50:50 Mix
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	15-090-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)/F12 50:50 Mix
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	16-405-CV
<b>Product Name</b>	Corning® 500 mL DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs

<b>Product Number</b>	90-090-PB
<b>Product Name</b>	Corning® 10L DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix, Powder
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea
<b>Product Number</b>	90-091-PB
<b>Product Name</b>	Corning® 10L DMEM (Dulbecco's Modified Eagle's Medium)/Hams F-12 50/50 Mix, Powder
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® IMDM (Iscove's Modification of DMEM), 1X



## Formulation

with Earle's Salts and L-glutamine, without Ribonucleosides, Deoxyribonucleosides, and Sodium Bicarbonate

[+] Earles Salts; [-] Ribonucleosides, Deoxyribonucleosides, L-glutamine

with Earle's Salts, Ribonucleosides, Deoxyribonucleosides, and L-glutamine

## Size

50 mL

500 mL

## Products

<b>Product Number</b>	10-016-CM
<b>Product Name</b>	Corning® 1L Iscove's Modification of DMEM
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	10-016-CV
<b>Product Name</b>	Corning® 500 mL Iscove's Modification of DMEM
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	15-016-CV
<b>Product Name</b>	Corning® 500 mL Iscove's Modification of DMEM
<b>Qty./Pk</b>	6 / Pk
<b>Qty./Cs</b>	6 / Cs
<b>Product Number</b>	50-016-PB
<b>Product Name</b>	Corning® 10L Iscove's Modification of DMEM
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® Ascent™ Fixed Bed Reactor System

CORNING

Scaling from Process Development to Production  
with an Attachment-dependent Cell Growth Platform

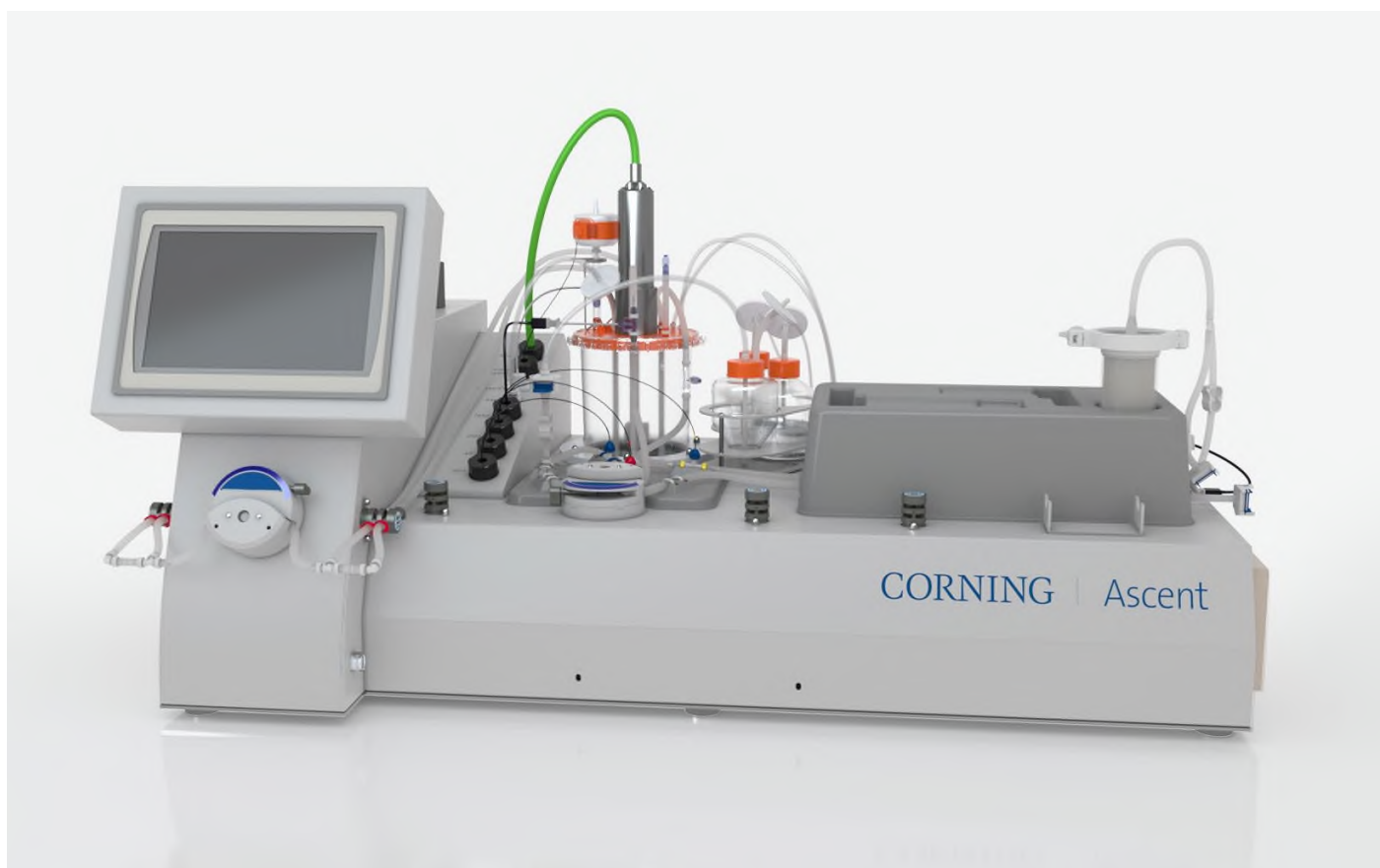
A major challenge in manufacturing adherent cells for advanced therapies is producing the large quantities of cells needed in a cost-effective manner. Corning has developed a novel fixed bed bioreactor platform that is designed to deliver significant surface area intensification and high-yield bioproduction capability.

The Corning Ascent FBR system is designed to enable process development and production scale cell culture capacities for cell and gene therapy workflows with high yields that may result in substantial cost savings when compared to existing commercial FBR systems. Also, the Corning Ascent FBR system is designed to provide viable cell harvest capability that can enable it to be used as seed train and potentially for other applications that require the ability to harvest large quantities of cells, such as regenerative medicine. Multiple Ascent FBR formats, ranging from a 1 m<sup>2</sup> process development system to a 1,000 m<sup>2</sup> production system, are designed to help in the development of a stable and well-defined manufacturing process.

## Advances in cell and gene therapy, biotherapeutics, and more, require advanced technology

Recent advances in biotherapeutics and cell and gene therapy may hold unprecedented promise for difficult-to-treat health conditions. From oncology to diabetes to rare diseases, innovative and rapidly evolving technologies continue to pave the way for potential treatment options once thought impossible.

For example, in gene therapy, recombinant adeno-associated (AAV) and lentiviral vectors (LVV) have emerged as leading gene delivery tools for *in vivo* and *ex vivo* gene therapies, respectively. However, most existing manufacturing technologies for these modalities are either labor-intensive, costly and slow, not truly scalable, or some combination thereof. Now more than ever, the industry needs scalable, cost-efficient manufacturing of cells and cell products such as viral vectors.



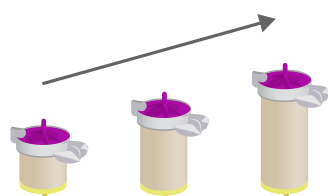
## An improved system for cell and gene therapy workflows

To address the need for a more efficient solution, we developed the Corning® Ascent™ FBR System, designed to combine the benefits of adherent bioproduction platforms with the scale and automation of suspension manufacturing systems.

The innovative bioreactor design in the Ascent FBR is designed to enable uniform media flow to enhance cell health and drive uniform high-density cell growth. It has been demonstrated to achieve greater than 90% transfection efficiency, resulting in high AAV vector yield/m<sup>2</sup>. Significantly higher yields can lead to fewer required runs, which may result in an overall reduction in media usage.

The Ascent FBR's design also allows for the harvest of viable cells, enabling a broad range of applications. This feature also allows this same platform to be used for seed train through to manufacturing, thus simplifying the workflow, reducing the number of technologies required to support the overall upstream process, and providing true scalability across a range of capacities from 1 m<sup>2</sup> to 1,000 m<sup>2</sup>. Collectively, these benefits may help drive faster development time to production and significant savings in manufacturing costs.

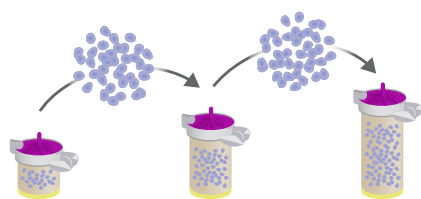
The Corning Ascent FBR system is designed to offer high-yield and scalability that consistently delivers production volumes with a simplified, cost-effective workflow.



### True Scalability

Transfection efficiency independent of vessel size

Bed Height (cm)	Surface Area (m <sup>2</sup> )		
	Process Development	Pilot	Production
4	1	20	200
10	2.5	50	500
20	5.0	100	1,000

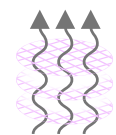


### Simplified Workflow

Maximize collection from each unit

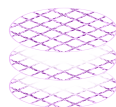
#### Uniform Fluid Flow

Efficient nutrient delivery and waste removal throughout bed



#### Uniform Cell Growth

Optimal distribution and confluence at transfection



## How it Works

The Ascent FBR System is designed around a single-use bioreactor supported by a media conditioning vessel and other accessory consumables and monitored and controlled by an innovative biocontroller.

### The Bioreactor

The Ascent FBR System's bioreactor features a specially treated and packed polymer mesh that enables uniform, low-shear fluid flow through the bioreactor bed, which promotes evenly distributed cell growth and enhances exposure of cells to nutrients and reagents. Bioreactors will be available in multiple surface area sizes to provide linear scalability from 1 m<sup>2</sup> to 1,000 m<sup>2</sup>.

### The Media Conditioning Vessel

The Ascent FBR PD System utilizes a separate conditioning vessel and recirculation loop and is connected to a motor mount and gas pressure sparge, which enables flexibility in managing media conditions and developing optimal processes within the platform. Optional Lynx® connectors (or tube welding) enable installation on the benchtop rather than in a laminar flow hood while allowing easy aseptic sampling of the bioreactor.

### The Automated Controller

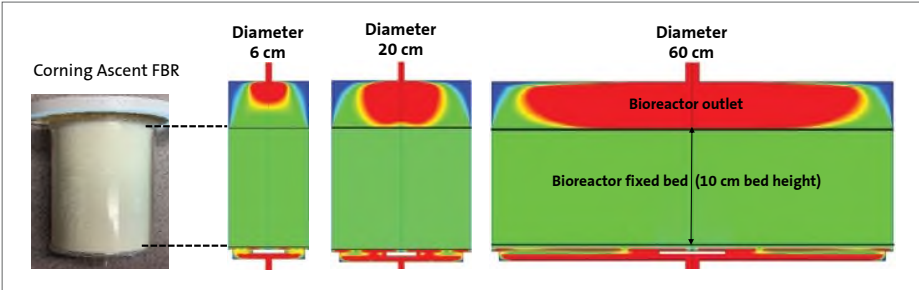
The Ascent FBR PD System is an automated, perfusion bio-production platform for attachment-dependent cell-based processes. The platform is designed to provide flexibility in protocol development and hands-off operation during use. The system's consumable set is equipped with disposable sensors for key process parameters (pH, dissolved oxygen, temperature). All fluid-contacting components are pre-assembled and irradiated; no autoclaving is required.

# Features and Benefits of the Corning® Ascent™ FBR System

Features	Benefits
Specially treated woven mesh polymer substrate	<ul style="list-style-type: none"> <li>• Uniform fluid flow – efficient nutrient delivery and waste removal</li> <li>• Uniform cell growth – beneficial cell distribution and confluence at transfection</li> <li>• Improves cell health and product yield</li> </ul>
FBR designed to harvest viable cells with >90% recovery	<ul style="list-style-type: none"> <li>• Enables its use in other application workflows that require cell recovery for downstream use</li> <li>• Enables the bioreactor to be used for seed train, streamlining vessel-to-vessel cell transfer</li> </ul>
Bioreactors scale from 1 m <sup>2</sup> to 1,000 m <sup>2</sup>	<ul style="list-style-type: none"> <li>• Linear scalability from process development to production size can save process development time/cost (reduced time to market)</li> </ul>
Automated control, including disposable sensors monitor DO, pH, temperature	<ul style="list-style-type: none"> <li>• Reduced labor costs, hands-off operation, reduced risk of human error</li> </ul>
Ready to use, irradiated consumables	<ul style="list-style-type: none"> <li>• Minimal set up required, no autoclaving necessary, no probe calibration required. The minimum set up required can save many hours of valuable time.</li> </ul>
Closed system	<ul style="list-style-type: none"> <li>• The Ascent FBR PD System can be run outside a laminar flow hood. Lynx® connectors or tube welding enable easy benchtop aseptic cell sampling of the bioreactor.</li> </ul>

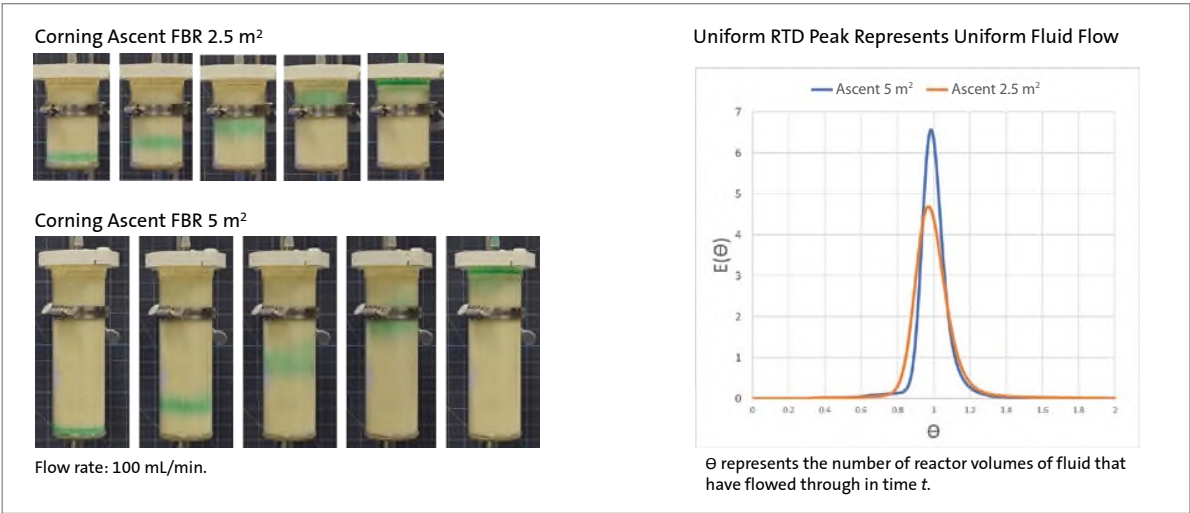
## Data Support for the Corning Ascent FBR

### Uniform Fluid Flow



**Figure 1.** Computational Fluid Dynamics (CFD) modeling for different scale prototype vessels with 10 cm packed bed height shows low shear and uniform flow across a large variation of packed bed diameters.

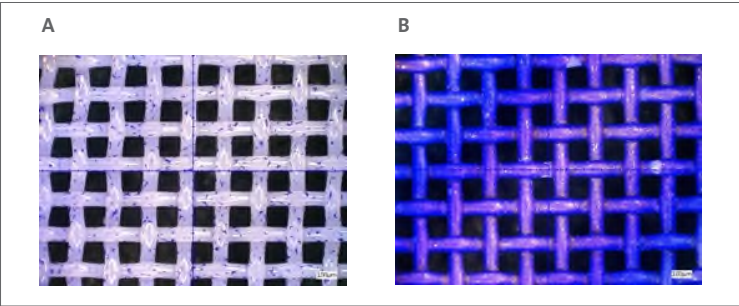
### Residence Time Distribution (RTD) Test Confirms Uniform Fluid Flow through the Corning Ascent FBR



**Figure 2.** The final calculated E(Θ) or Θ are dimensionless (normalized parameters) which are independent of vessel volumes or flow rates. Flow rate = 100 mL/min. Θ = 1 and t corresponds to approx. 4.6 min. for 5 m<sup>2</sup> vessel and approx. 2.4 min. for 2.5 m<sup>2</sup>.

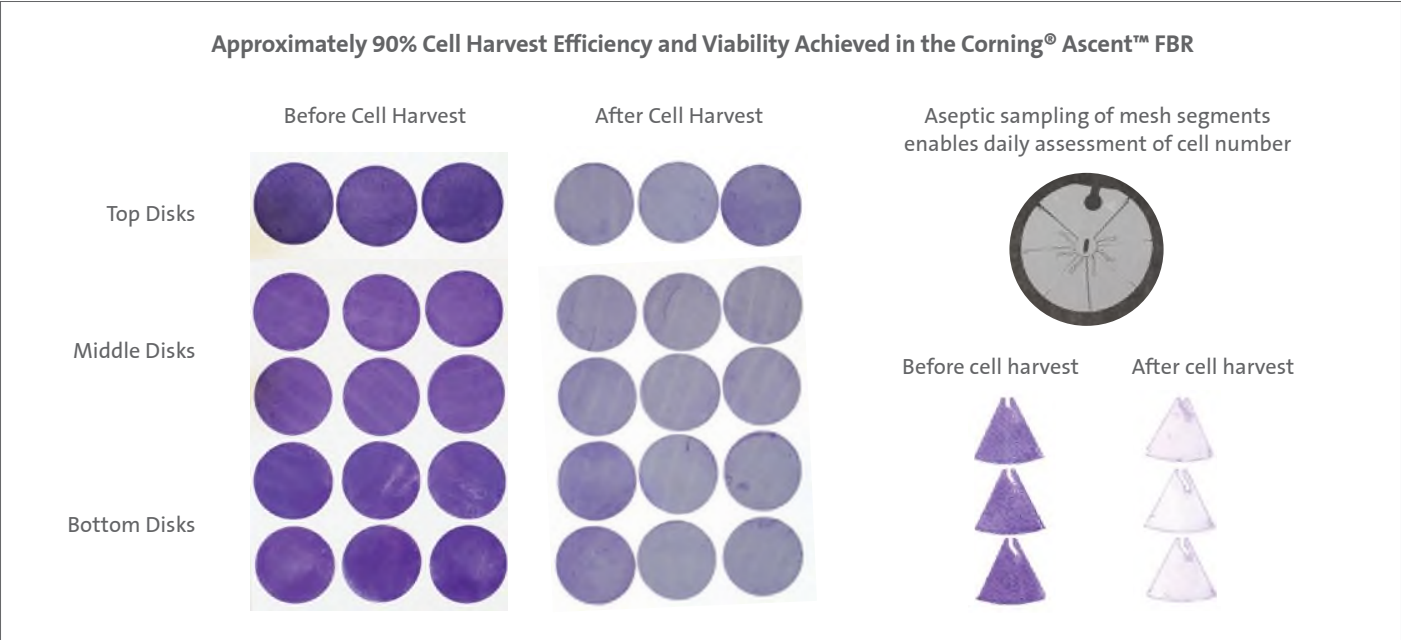


Uniform Cell Attachment and Growth



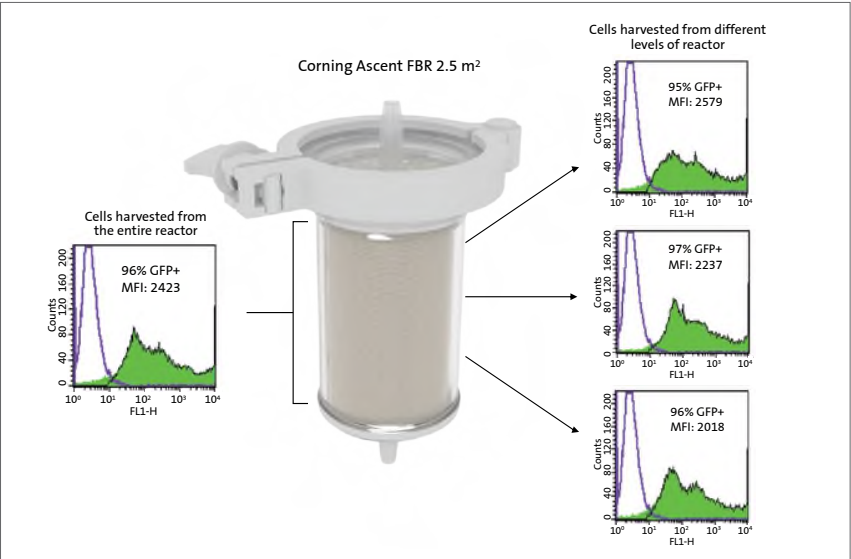
**Figure 3.** The woven mesh that makes up the substrate in the Corning Ascent FBR enables uniform cell adhesion and growth of cells. In these images (magnification = 100 μm), crystal violet staining of HEK293T cells reveals uniform cell seeding after three hours (A) and subsequent even cell growth after 3 days (B).

Efficient Cell Harvest



**Figure 4.** Crystal violet staining shows that cell distribution is uniform across each disk as well as throughout the top, middle, and bottom of the bioreactor. Media flows up through the bottom of the bioreactor; aseptic cell sampling occurs at the top of the bioreactor by removing the flange cap in a cell culture hood and selecting perforated segments of mesh substrate. Cells can be removed from the substrate and tested in functional live cell assays pre- and post-transfection.

Uniform Transfection Across the Bioreactor



**Figure 5.** The Corning Ascent FBR has achieved uniform transfection efficiency across a 2.5 m<sup>2</sup> packed bed reactor transfected with AAV2-GFP plasmids. Average % of GFP+ cells was 90.9. (Flow cytometry data are 72 hrs. post-transfection).

These results of Corning® Ascent™ FBR rAAV2-GFP production experiments using HEK293T cells, triple transfection method, and PEIpro® reagent show a high level of consistency across multiple experiments and different bioreactor sizes.

No. of Runs	Reactor Surface Area	Reactor Diameter	Average Cells/cm <sup>2</sup> at Harvest	Average % GFP+ Cells	Average Bulk AAV2 VG/cm <sup>2</sup>
3	0.2 m <sup>2</sup> *	29 mm	385,625	>90	2.30 x 10 <sup>10</sup>
4	0.7 m <sup>2</sup> *	60 mm	456,206	>90	2.60 x 10 <sup>10</sup>
4	2.5 m <sup>2</sup>	63 mm	413,458	>90	1.75 x 10 <sup>10</sup>
Average of all runs:			421,412	91	2.20 x 10 <sup>10</sup>
% CV (Average of all runs):			19	3	31

\*Prototype size reactor

Surface area intensification enables the Corning Ascent FBR to deliver significantly more viral vector product with the same efficiency as a 2D planar vessel of comparable volume (e.g., T-75 flask).

	Corning T-75 Flask	Corning Ascent FBR
Reactor Surface Area	0.0075 m <sup>2</sup>	2.5 m <sup>2</sup>
Transfection Efficiency	94%	93%
Bulk AAV GC/cm <sup>2</sup>	1.56 x 10 <sup>10</sup>	1.56 x 10 <sup>10</sup>
% of Ascent FBR	100%	100%
Bulk AAV GC/Vessel	1.17 x 10 <sup>12</sup>	3.90 x 10 <sup>14</sup>
Production Ratio	1X	330X

Data represents average of a minimum of three independent runs.

## Improve your Production Yields with the Corning Ascent FBR System

From process development to manufacturing, you can scale-up production of adherent cells and cell products (e.g., viral vectors) in a single, consistent technology platform. The Ascent FBR System is designed to deliver:

- ▶ **Potential cost savings:** With high yield per cm<sup>2</sup>, production will require fewer runs to achieve the same quantity of viral particles. Additional savings may result from lower consumption of media and serum/m<sup>2</sup> as well as reduced downstream processing time and waste.
- ▶ **Viable Cell Harvest:** Recover cells for capture of cell-associated viruses, seeding into larger reactors, and a path to cell therapy workflows.
- ▶ **Reduced CapEx and labor costs:** Easy benchtop set up, self-contained closed system with irradiated consumables—laminar flow hood not required for operation.
- ▶ **Uniformity and Scalability:** Bioreactors range from 1 m<sup>2</sup> to 1,000 m<sup>2</sup>, designed for efficiency.

For additional information or to request a demonstration, visit [www.corning.com/AscentFBR](http://www.corning.com/AscentFBR) or contact your local Corning Account Representative.

# Corning® X-LAB® System



The Corning X-LAB System is designed to separate and harvest a programmable volume of target cell populations from blood and blood products in a closed, sterile device.

Customizable process programming, automated separation of samples into three chambers, and highly sensitive infrared sensors for cell separation ensure consistent, reliable, efficient, high-recovery results.

Processing data can be transferred to X-SERIES® DataTrak software to further support MP processing, monitoring and reporting of information.

The Corning X-LAB System is a flexible solution for efficient, reliable, and reproducible density gradient media recovery of target cell populations from blood and blood products.

The Corning® X-SERIES® Systems are manufactured for Corning by ThermoGenesis Corp.

X-SERIES®, X-WASH®, X-LAB®, X-BACS™, and X-MINI® are either registered trademarks or trademarks of ThermoGenesis Corp. in the United States and/or other countries.

**Product Type**

Control Module
Docking Station
Cartridges

# Products

Product Number	6917
Product Name	Corning® X-LAB® Control Module
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	6918
Product Name	Corning® X-LAB® Docking Station
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	6924
Product Name	Corning® X-LAB® Disposable Cartridges (2 cartridges)
Qty./Pk	1 / Pk
Qty./Cs	2 / Cs
Product Number	6925
Product Name	Corning® X-LAB® Disposable Cartridges (12 cartridges)
Qty./Pk	1 / Pk
Qty./Cs	12 / Cs

<b>Product Number</b>	6926
<b>Product Name</b>	Corning® X-LAB® Disposable Cartridges (36 cartridges)
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	36 / Cs

# Corning® X-WASH® System



The Corning X-WASH System is designed to wash, resuspend, and volume-reduce cell suspensions in a sterile, closed system. Process protocols can be customized to ensure consistently high cell recovery. Highly sensitive infrared sensors detect the interface between cells and media and direct the washed cells into a dedicated harvest chamber. The harvest chamber can be pre-filled with a media of choice for resuspension of harvested cells. The X-SERIES® DataTrak software enables transfer of process data from the X-WASH Control Module to the database to support GMP processing, monitoring and reporting of information.

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**Product Type**

Control Module
Docking Station
Cartridges

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## Products

<b>Product Number</b>	6928
<b>Product Name</b>	Corning® X-WASH® Control Module
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	6929
<b>Product Name</b>	Corning® X-WASH® Docking Station
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	6931
<b>Product Name</b>	Corning® X-WASH® Disposable Cartridges (2 cartridges)
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	2 / Cs
<b>Product Number</b>	6932
<b>Product Name</b>	Corning® X-WASH® Disposable Cartridges (12 cartridges)
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	12 / Cs

<b>Product Number</b>	6933
<b>Product Name</b>	Corning® X-WASH® Disposable Cartridges (36 cartridges)
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	36 / Cs



# Corning® X-SERIES® Accessories

The Corning® X-SERIES® Systems are manufactured for Corning by ThermoGenesis Corp.

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### Accessories Type

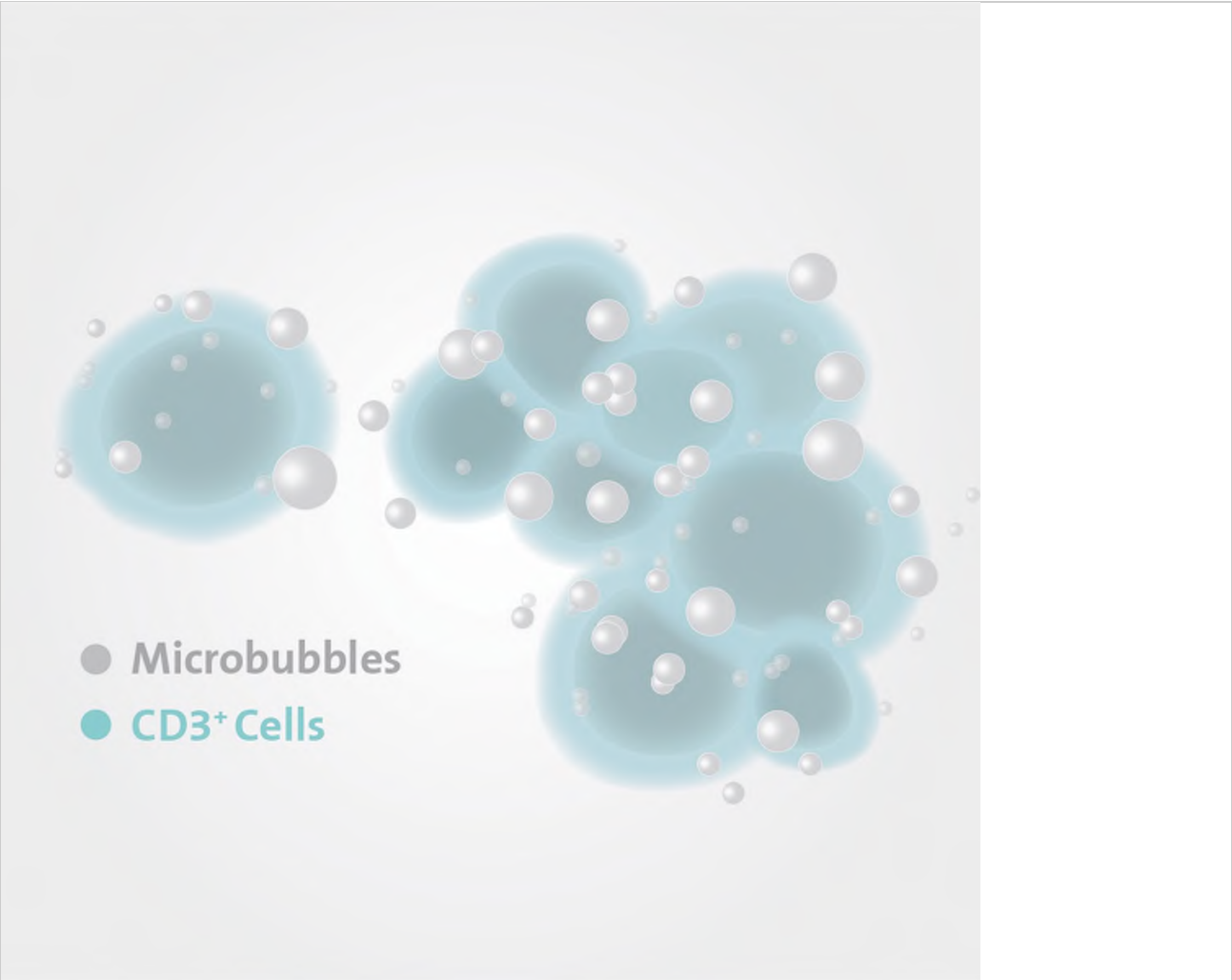
Balance Ring Kit
DataTrak Software
X-MINI Pressor
Counterweight

### Products

Product Number	6915
Product Name	Corning® X-MINI® Pressor
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs
Product Number	6923
Product Name	Corning® X-Balance Ring Kit
Qty./Pk	1 / Pk
Qty./Cs	1 / Cs

<b>Product Number</b>	6930
<b>Product Name</b>	X-SERIES® DataTrak Software
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	6943
<b>Product Name</b>	Corning® X-Counterweight
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Ea

# Corning® X-BACS™ System



The Corning® X-MINI® Selection Kits are designed for the selection of cells and cell subsets from blood and blood products using Buoyancy Activated Cell Sorting (Corning X-BACS™) technology.

## Features and Benefits

- Simplified process: Easy to use
- Single-use, column-free: Gentle on your cells
- High purity: Achieve purities of up to 99%
- Consistency: Reproducible results (>86%)
- High viability (>97%)
- Process up to  $4 \times 10^8$  total cells

The Corning® X-SERIES® Systems are manufactured for Corning by ThermoGenesis Corp.

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## Kit Type

Human CD8
Human CD3

## Products

<b>Product Number</b>	6910
<b>Product Name</b>	Corning® X-MINI® Human CD8 Selection Kit
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs
<b>Product Number</b>	6911
<b>Product Name</b>	Corning® X-MINI® Human CD3 Selection Kit
<b>Qty./Pk</b>	1 / Pk
<b>Qty./Cs</b>	1 / Cs

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