Corning® Erlenmeyer Flasks

Versatile vessels for suspension cell culture, seed train, closed processing, storage, and other applications.

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Features

Multiple choices for practical handling

- Flask sizes range from 125 mL to 5L
- Cell culture fill volumes from 30 mL to 3.5L
- Materials: Polycarbonate (all sizes) or PETG (2L to 5L)
- Baffled bottom option for better aeration
- Flat (plug) cap option for secure sealing
- Vent cap option for continuous gas exchange while ensuring sterility and preventing leakage
- Aseptic transfer caps for closed processing to mitigate contamination risk and maximize operational flexibility
- Resistant molded-in graduations for accuracy
- Configurable closed assemblies available

High Quality Standards*

- Individually packaged flasks in easy to open LDPE bags
- Sterility Assurance Level (SAL) of 10^{-6}
- USP Class VI material with excellent optical clarity and mechanical strength; raw material tested to USP <88>
- Nonpyrogenic
- RNase-/DNase-free
- BSE/TSE-free – complies with EMEA/410/01

*Claims may vary by product. Product-specific claims are found on the Certificate of Compliance (CoC) for each lot of shipped product. For more specific information on claims, visit **www.corning.com/resources.**

Corning Erlenmeyer Flasks are an ideal solution for the expansion of suspension cells.

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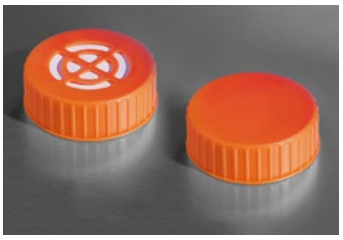
Broad selection of Erlenmeyer flasks, sizes 125 mL to 5L



5L Erlenmeyer flask with aseptic transfer cap including needleless sample port (Cat. No. 11501)



250 mL Erlenmeyer flask with aseptic transfer cap (Cat. No. 11415)



Flat and vented cap with 0.2 µM microporous membrane



Baffled bottom design for better aeration

A variety of application notes demonstrating the superior performance of Corning® Erlenmeyer flasks are available.

Application Notes

Efficient Expansion of Suspension CHO Cells in Corning 5 Liter Erlenmeyer Flasks (CLS-AN-242)

High-Level Transient Recombinant Protein Production in CHO Suspension Cells using Corning 5L Erlenmeyer Flasks (CLS-AN-640)

Baffled Erlenmeyer Flasks Increase Medium Aeration for Better Cell Culture Performance (CLS-AN-087)

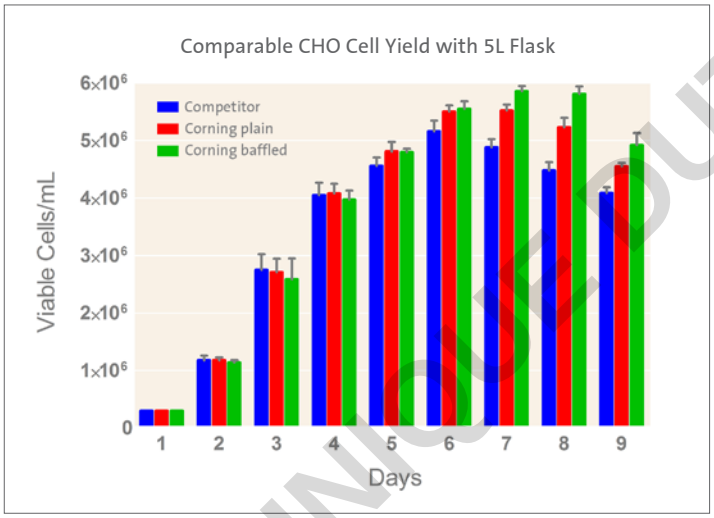
The Corning 5L Erlenmeyer Flask Provides an Ideal Choice for Efficient Scale-Up of Suspension Cells (CLS-AN-237)

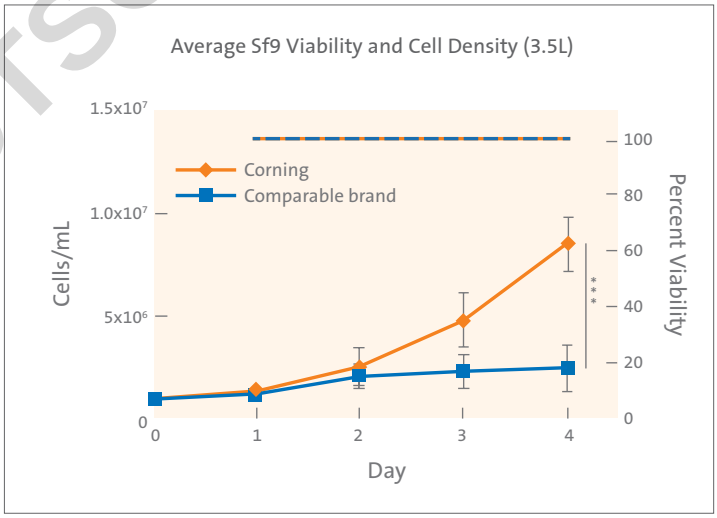
Efficient Expansion of HEK-293 Suspension Cell Cultures in Corning 5L Erlenmeyer Flasks (CLS-AN-513)

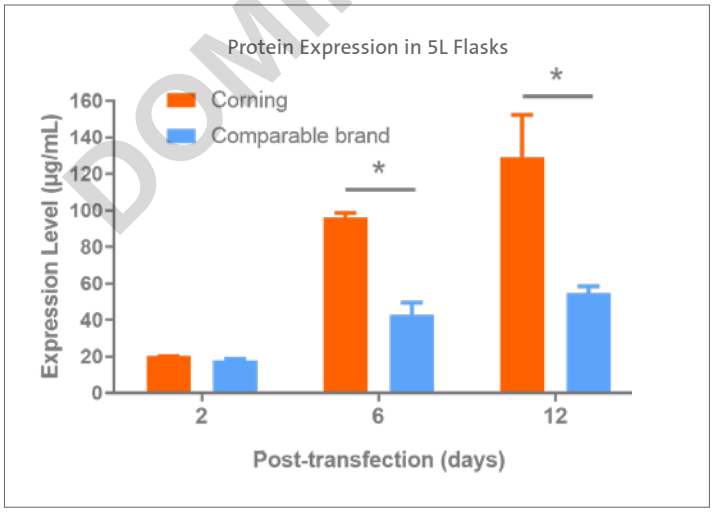
Efficient Expansion of Suspension CHO Cells in Corning PETG Erlenmeyer Flasks (CLS-AN-478)

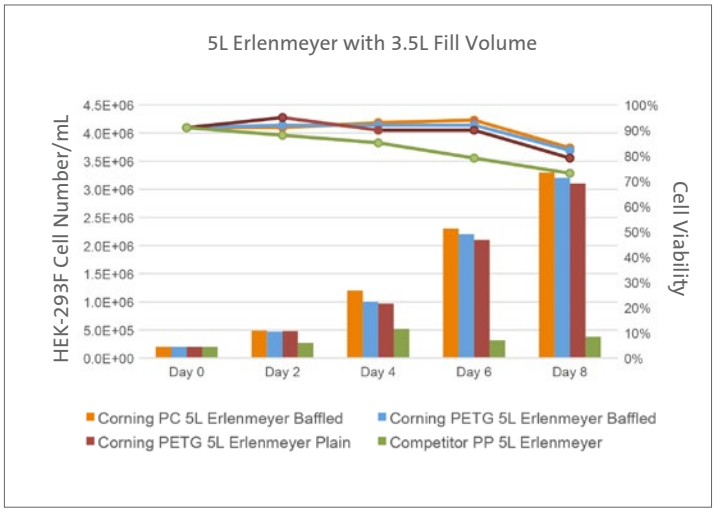
Corning 100 mm Aseptic Transfer Cap for 5L Erlenmeyer Flasks Provides an Aseptic Solution for Liquid Transfer and Can Be Utilized Throughout Cell Culture (CLS-AN-550)

User Guide Corning 5L Erlenmeyer Aseptic Transfer Cap for Transfer by Vacuum or Positive Pressure User Guide (CLS-AN-320)









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Corning® Erlenmeyer flasks are available in sizes ranging from 125 mL to 5L, making them an ideal choice for efficient scale-up and seed train of suspension cell culture.

Ordering Information

Products may not be available in all markets.

Erlenmeyer Flasks

Cat. No.	Material	Flask Size	Bottom Type	Cap Type	Recommended Fill Volume (mL)	Recommended Orbital Shaker Speed (rpm)**	Qty/Cs
431143	PC	125 mL	Plain	Vent	30	130	50
430421	PC	125 mL	Plain	Flat	30	130	50
431405	PC	125 mL	Baffled	Vent	30	130	50
431404	PC	125 mL	Baffled	Flat	30	130	50
431144	PC	250 mL	Plain	Vent	60	130	50
430183	PC	250 mL	Plain	Flat	60	130	50
431407	PC	250 mL	Baffled	Vent	60	130	50
431406	PC	250 mL	Baffled	Flat	60	130	50
431145	PC	500 mL	Plain	Vent	150 - 200	130 - 150	25
430422	PC	500 mL	Plain	Flat	150 - 200	130 - 150	25
431401	PC	500 mL	Baffled	Vent	150 - 200	130 - 150	25
431408	PC	500 mL	Baffled	Flat	150 - 200	130 - 150	25
431147	PC	1L	Plain	Vent	300 - 350	120 - 150	25
431146	PC	1L	Plain	Flat	300 - 350	120 - 150	25
431403	PC	1L	Baffled	Vent	300 - 350	120 - 150	25
431402	PC	1L	Baffled	Flat	300 - 350	120 - 150	25
431255	PC	2L	Plain	Vent	400	130	6
431256	PC	2L	Baffled	Vent	400	130	6
431252	PC	3L	Plain	Vent	800 - 1000	90 - 150	4
431253	PC	3L	Baffled	Vent	800 - 1000	90 - 150	4
431685	PC	5L	Plain	Vent	2,500 - 3,500	90 - 100	4
431686†	PC	5L	Plain	Flat	2,500 - 3,500	90 - 100	4
431684	PC	5L	Baffled	Vent	2,500 - 3,500	90 - 100	4
431280	PETG	2L	Plain	Vent	400	130	6
431281	PETG	2L	Baffled	Vent	400	130	6
431282	PETG	3L	Plain	Vent	800 - 1,000	90 - 150	4
431283	PETG	3L	Baffled	Vent	800 - 1,000	90 - 150	4
431284	PETG	5L	Plain	Vent	2,500 - 3,500	90 - 100	4
431285	PETG	5L	Baffled	Vent	2,500 - 3,500	90 - 100	4

†Made-to-order.
**Recommended speed depends on the orbital shaker size.

Disposable Erlenmeyer flasks are traditionally made of polycarbonate (PC) and are commonly used as seed train vessels to expand cells grown in suspension. Corning offers a wide range of PC Erlenmeyer flasks. We also offer 2L, 3L, and 5L Erlenmeyer flasks made of bisphenol A(BPA)-free polyethylene terephthalate glycol (PETG). This allows scientists to choose the material and flask size that work best with their specific cell lines and applications.

For a full overview of recommended fill volumes and orbital shaker speeds for different cell lines, please see Corning Erlenmeyer Flasks Guidelines for Use (CLS-AN-426).

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Closed bioprocessing: mitigate contamination risk and maximize operational flexibility with aseptic transfer caps for Corning Erlenmeyer flasks.

Pre-assembled Erlenmeyer flasks with aseptic transfer caps

Corning Erlenmeyer flasks are available as sterile, pre-assembled closed systems, consisting of a polycarbonate Erlenmeyer flask and an aseptic transfer cap, for mitigating the risk of compromising sterility during assembly. They are sterile and arrive individually doubled-bagged and preassembled. The preassembled transfer caps have two ports: Venting port with a 0.2 µm filter, and a liquid transfer port, which consists of chemically resistant, heat sealable flexible tubing, with either a male Luer lock or a male MPC connector.

Ordering Information

Products may not be available in all markets.

Cat. No.	Flask Size	Bottom Type	Terminal Connector	Tube Size	Tube Length	Qty/Cs
11405	125 mL	Plain	MLL	⅛" ID, ¼" OD	36"	6
11415	250 mL	Plain	MLL	⅛" ID, ¼" OD	36"	4
11425	500 mL	Plain	MLL	⅛" ID, ¼" OD	36"	2
431510	1L	Plain	MLL	⅛" ID, ¼" OD	36"	4
431516	1L	Plain	Male MPC	¼" ID, ⅜" OD	36"	4
431512	2L	Plain	MLL	⅛" ID, ¼" OD	36"	3
431518	2L	Plain	Male MPC	¼" ID, ⅜" OD	36"	3
431514	3L	Plain	MLL	⅛" ID, ¼" OD	36"	2
431520	3L	Plain	Male MPC	¼" ID, ⅜" OD	36"	2
11501	5L	Plain	Male MPC	¼" ID, ⅜" OD	36"	2
11502	5L	Baffled	Male MPC	¼" ID, ⅜" OD	36"	2



2L and 3L Erlenmeyer flasks with aseptic transfer caps with terminal male MPC connectors (from left to right: Cat. Nos. 431520 and 431518)



500 mL Erlenmeyer flask with aseptic transfer cap with terminal male Luer lock connector (Cat. No. 11425)

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Aseptic Transfer Caps for Erlenmeyer Flasks

Aseptic transfer caps fit both polycarbonate and PETG Corning Erlenmeyer flasks. The transfer caps have two ports: a venting port with 0.2 µm filter and a liquid transfer port. Tubing is chemically resistant, heat sealable, and flexible. There are two terminal connector options:

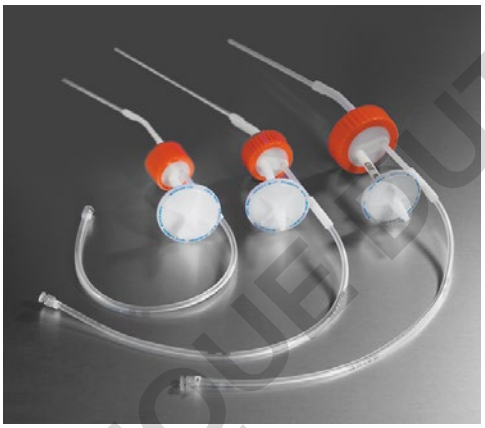
- ¼" ID (⅜" OD) tubing terminated with a capped male MPC connector
- ⅛" ID (¼" OD) tubing terminated with a capped male Luer lock (MLL) connector

The internal end of the liquid transfer port is a rigid polypropylene dip tube designed to reach the bottom of the flask for easy aseptic transfer with minimal holdup volume.

Ordering Information

Products may not be available in all markets.

Cat. No.	Compatible with Flask Size	Compatible with Products	Terminal Connector	Tube Size	Tube Length	Qty/Cs
431444	1L	431146, 431147, 431402, 431403	MLL	⅛" ID, ¼" OD	36"	5
431445	1L	431146, 431147, 431402, 431403	Male MPC	¼" ID, ⅜" OD	36"	5
431446	2L	431255, 431256, 431280, 431281	MLL	⅛" ID, ¼" OD	36"	6
431447	2L	431255, 431256, 431280, 431281	Male MPC	¼" ID, ⅜" OD	36"	6
431448	3L	431252, 431253, 431282, 431283	MLL	⅛" ID, ¼" OD	36"	4
431449	3L	431252, 431253, 431282, 431283	Male MPC	¼" ID, ⅜" OD	36"	4
11500	5L	431284, 431285, 431684, 431685	Male MPC	¼" ID, ⅜" OD	36"	4



Aseptic transfer caps with terminal male Luer lock connectors for 1, 2 or 3L Erlenmeyer flasks (from left to right: Cat. No. 431444, 431446, 431448)



Aseptic transfer cap with needleless sample port and terminal male MPC connector for 5L Erlenmeyer Flask (Cat. No. 11500)

Replacement Erlenmeyer Flask Caps

Cat. No.	Compatible with Flask Size	Compatible with Products	Cap Style	Qty/Cs
431372†	500 mL or 1L	430422, 431145, 431146, 431147, 431401, 431402, 431403, 431408	Vented	50
431339	2L	431255, 431256, 431280, 431281	Vented	24
431364	2L	431255, 431256, 431280, 431281	Flat	24
431340	3L	431252, 431253, 431282, 431283	Vented	24
431363	3L	431252, 431253, 431282, 431283	Flat	24
431682	5L	431284, 431285, 431684, 431685	Vented	24

†Made-to-order.



Vent cap for 3L flask (Cat. No. 431340)



Flat cap for 3L flask (Cat. No. 431363)

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Warranty/Disclaimer: Unless otherwise specified, these products are US class I medical devices for cell and tissue culture. Corning does not make or support any further claim for these products nor does it conduct any further testing to support any other intended use for the product indicated above. Should you decide that you want to use the product for any intended use other than that made by Corning then you accept that Corning does not make or support that claim and that you as the user are responsible for any testing, validation, and/or regulatory submissions that may be required to support the safety and efficacy of your intended application. For more specific information on claims, visit **www.corning.com/resources**.

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