

Corning® HYPERStack® Cell Culture Vessels

Closed Systems for High Yield Cell Growth

CORNING

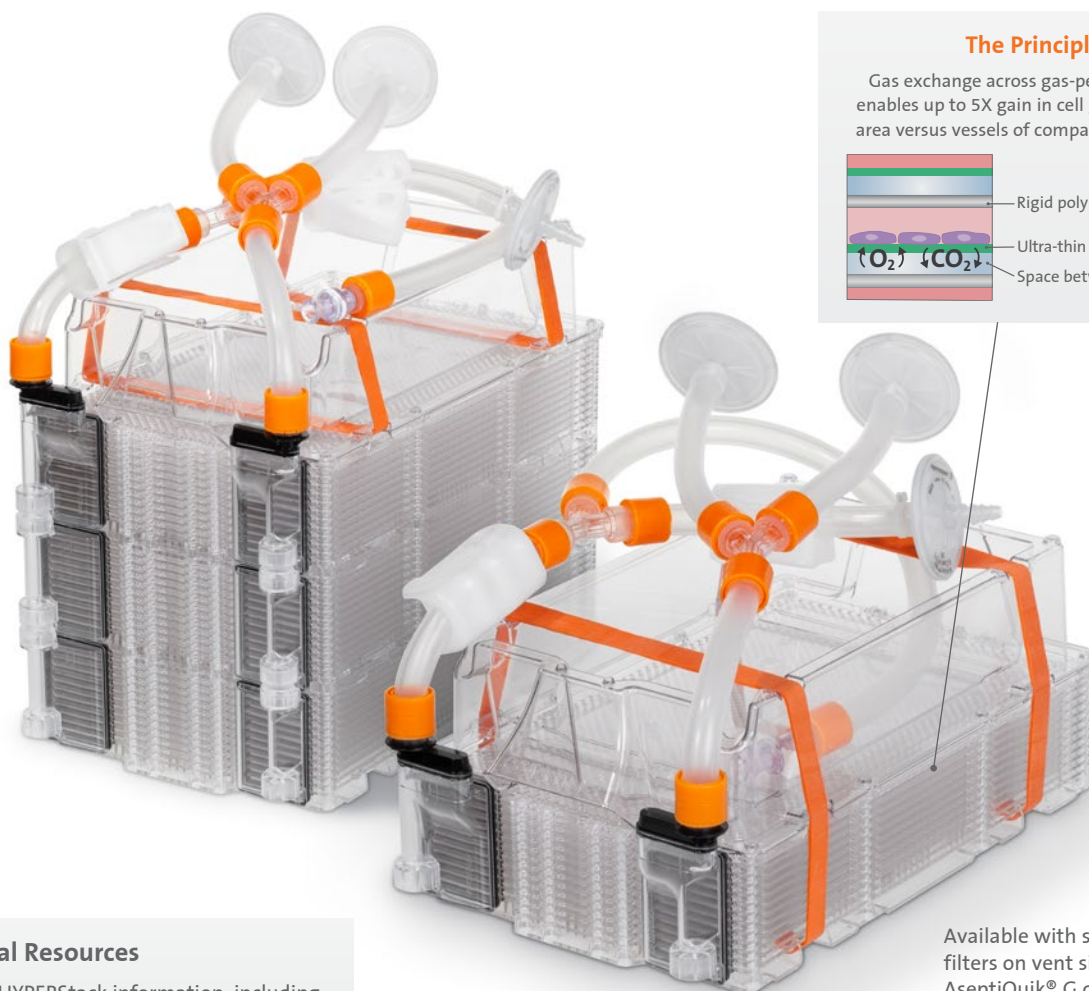
Corning's High Yield PERFORMANCE (HYPER) Platform

The HYPERStack cell culture vessel combines the best of two Corning products: the Corning CellSTACK® and the Corning HYPERFlask® cell culture vessels.

The utilization of the 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.

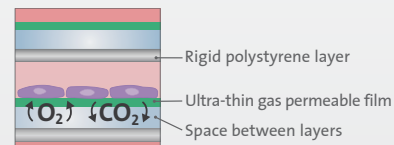
Features and Benefits

- 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/cm² fills vessel for less volumetric waste



The Principle

Gas exchange across gas-permeable film enables up to 5X gain in cell growth surface area versus vessels of comparable footprint.

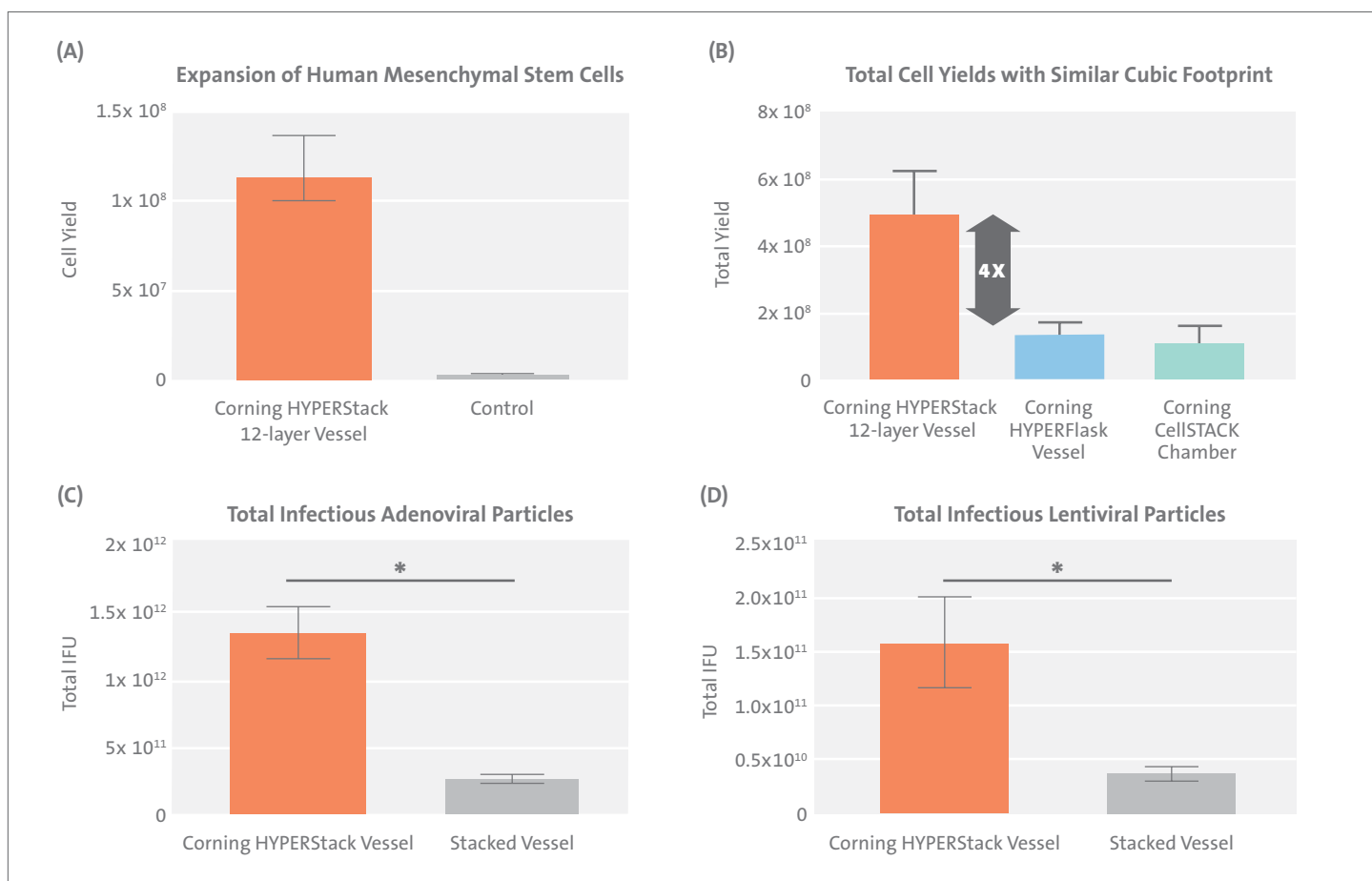


Additional Resources

Additional HYPERStack information, including application notes and videos, are available at www.corning.com/HYPER.

Available with single or dual filters on vent side; MPC or AsepticQuik® G connectors on fill side

Corning® HYPERStack® Cell Culture Vessels Improve Scale-up Efficiency



(A) Final expansion of Human Mesenchymal Stem Cells in Corning HYPERStack 12-layer or control T-flask cell culture vessels with Corning CellBIND® surface treatment using hMSC medium. (B) Total Corning HYPERStack vessel yields of Vero cell cultures were 4X greater than yields from Corning CellSTACK® vessels with similar cubic footprint. (C) Corning HYPERStack vessels generated a significantly higher amount of total infectious adenoviral particles versus stacked vessels of similar cubic footprint. Total infectious adenoviral particles were calculated based on titers and the volume of each fraction (cells and medium). (D) Corning HYPERStack vessels generated a significantly higher amount of total infectious lentiviral particles compared to stacked vessels of similar cubic footprint. *Paired t-test, $p < 0.05$, $N=3$.

The Properties



Corning HYPERStack 12-layer

Surface	6,000 cm ²
Volume	1.31L
Filled weight (approx.)	2.2 kg
Dimensions (L x W)	13.42 x 8.15 in. (342 x 207 mm)
Vessel Height	2.8 in. (71 mm)
Height with Accessory Tray	5.5 in. (140 mm)



Corning HYPERStack 36-layer

Surface	18,000 cm ²
Volume	3.92L
Filled weight (approx.)	6.6 kg
Dimensions (L x W)	13.42 x 8.15 in. (342 x 207 mm)
Height with Accessory Tray	10.97 in. (278 mm)



Ordering Information

Corning® HYPERStack® Cell Culture Vessels

Cat. No.	Description	Growth Area (cm ²)	Qty/Pk	Qty/Cs
20012	HYPERStack 12-layer vessel, CellBIND® surface, single vent filter, sterile	6,000	1	4
20036	HYPERStack 36-layer vessel, CellBIND surface, single vent filter, sterile	18,000	1	2
20013	HYPERStack 12-layer vessel, non-treated, single vent filter, sterile	6,000	1	4
20037	HYPERStack 36-layer vessel, non-treated, single vent filter, sterile	18,000	1	2
24012	HYPERStack 12-layer vessel, CellBIND surface, dual vent filter, sterile	6,000	1	4
24036	HYPERStack 36-layer vessel, CellBIND surface, dual vent filter, sterile	18,000	1	2
24013	HYPERStack 12-layer vessel, non-treated, dual vent filter, sterile	6,000	1	4
24037	HYPERStack 36-layer vessel, non-treated, dual vent filter, sterile	18,000	1	2
23012	HYPERStack 12-layer vessel, CellBIND surface, dual vent filter, AsepticQuik® G connector, sterile	6,000	1	4
23036	HYPERStack 36-layer vessel, CellBIND surface, dual vent filter, AsepticQuik® G connector, sterile	18,000	1	2
23013	HYPERStack 12-layer vessel, non-treated, dual vent filter, AsepticQuik® G connector, sterile	6,000	1	4
23037	HYPERStack 36-layer vessel, non-treated, dual vent filter, AsepticQuik® G connector, sterile	18,000	1	2

Accessories

Cat. No.	Description	Qty/Pk	Qty/Cs
431518	2L Erlenmeyer flask with dip tube with 0.2 µm vent, male MPC, chemically resistant, heat sealable flexible tubing, 1/4" ID, 3/8" OD	1	3
11501	5L Erlenmeyer flask with dip tube with 0.2 µm filter, male MPC chemically resistant, heat sealable flexible tubing, 1/4" ID, 3/8" OD	1	2
10043	Disposable tubing set for use with 850 cm ² polystyrene roller bottle, 3/8" ID x 1/2" OD, chemically resistant, heat sealable, thermoplastic elastomer tubing, 0.2 µm filter, MPC	1	2
431644	850 cm ² polystyrene bottle, easy grip cap, non-treated, sterile	1	40
10047	HYPERStack Nest accessory	1	1
11370	HYPERStack manifold, MPC connectors, 5-link, polypropylene, standard tubing lengths, sterile	1	2
11380*	HYPERStack manifold, MPC connectors, 5-link, polypropylene, extended tubing lengths, sterile	1	2
11630	HYPERStack manifold, AsepticQuik® G connectors, 5-link, polypropylene, standard tubing lengths, sterile	1	2
11640	HYPERStack manifold, AsepticQuik® G connectors, 5-link, polypropylene, extended tubing lengths, sterile	1	2

How to Purchase: For specific availability in your region and purchasing options, terms and conditions of sale, customer/product support, and certificates, visit www.corning.com/how-to-buy.

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