

Corning® HYPERStack® Cell Culture Vessels

Closed System for High Yield Cell Growth

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.

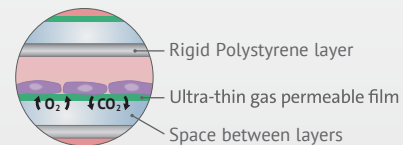
Features and Benefits

- 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

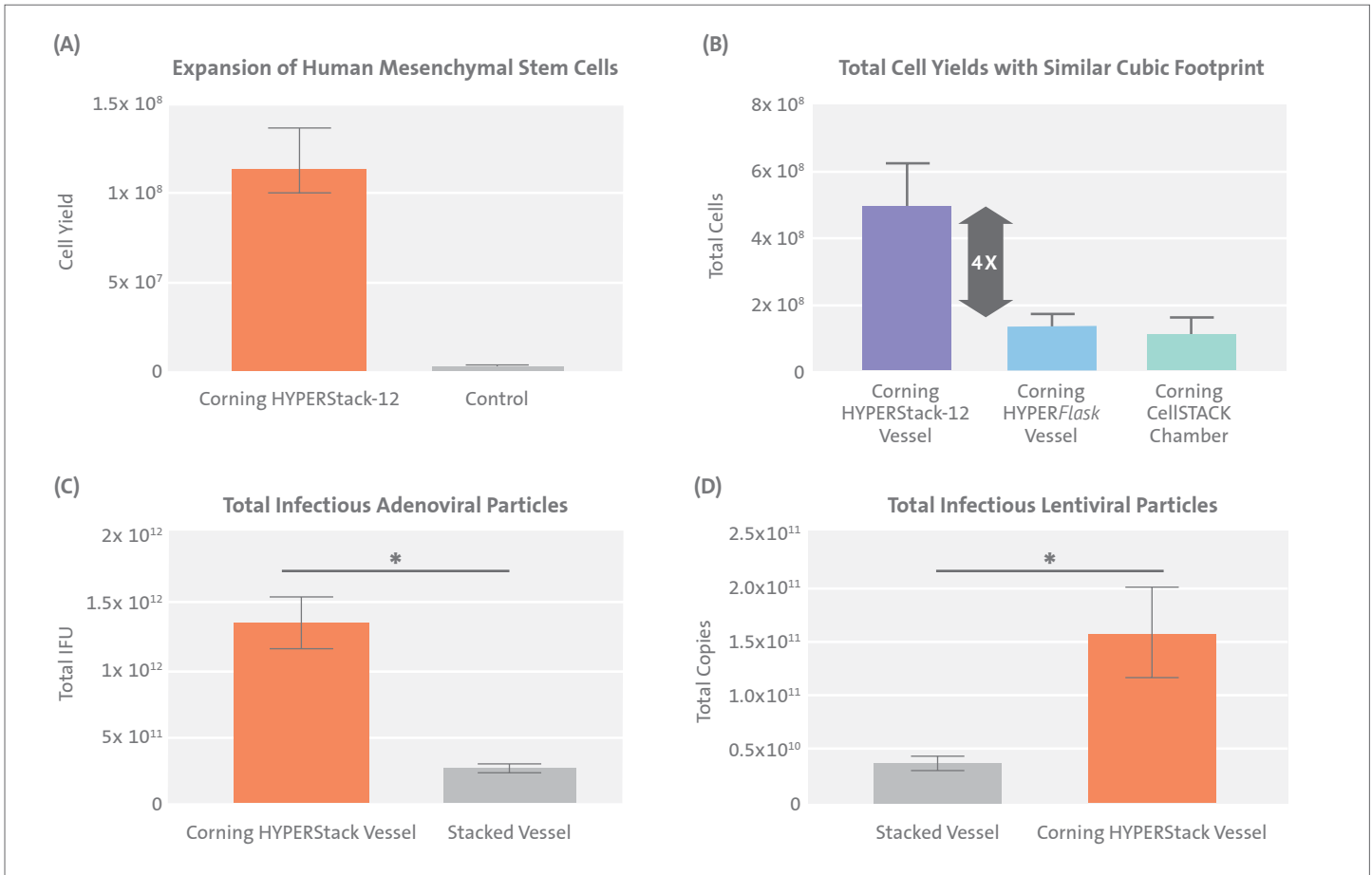


The Principle

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



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® HYPERSStack® Cell Culture Vessels

Thomas No.	Mfr. No.	Description	Growth Area (cm ²)	Qty/Pk	Qty/CS
21A00F424	20012	Corning HYPERSStack 12-layer cell culture vessel, Corning CellBIND® surface, sterile	6,000	1	4
21A00F426	20036	Corning HYPERSStack 36-layer cell culture vessel, Corning CellBIND surface, sterile	18,000	1	2
21A00F425	20013	Corning HYPERSStack 12-layer cell culture vessel, non-treated, sterile	6,000	1	4
21A00F427	20037	Corning HYPERSStack 36-layer cell culture vessel, non-treated, sterile	18,000	1	2

Accessories

Thomas No.	Mfr. No.	Description	Qty/Pk	Qty/CS
1218C53	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
1187K68	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
1217L72	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	3
1217L74	431644	Corning 850 cm ² polystyrene bottle, easy grip cap, non-treated, sterile	1	40
21A00J723*	10047*	Corning HYPERSStack Nest accessory	1	1

*Made to order. Please contact your local Account Representative for more information.

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