Corning® HYPERStack® Cell Culture Vessels

Closed Systems for High Yield Cell Growth

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Corning's High Yield PERformance (HYPER) Platform

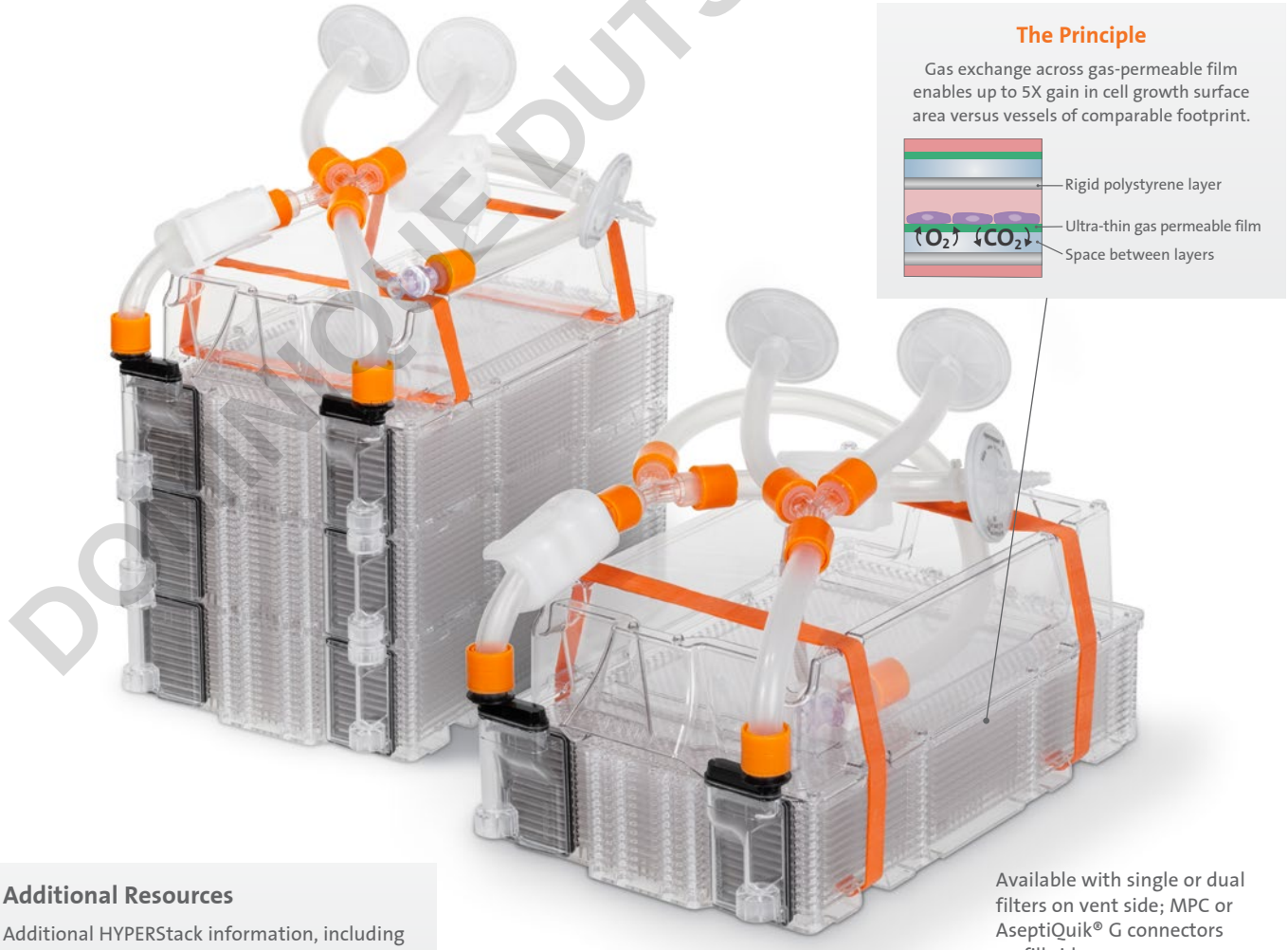
The HYPERStack cell culture vessel combines the best of two Corning products: the Corning CellSTACK® and the Corning HYPERFlask® cell culture vessels.

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/cm^2 fills vessel for less volumetric waste

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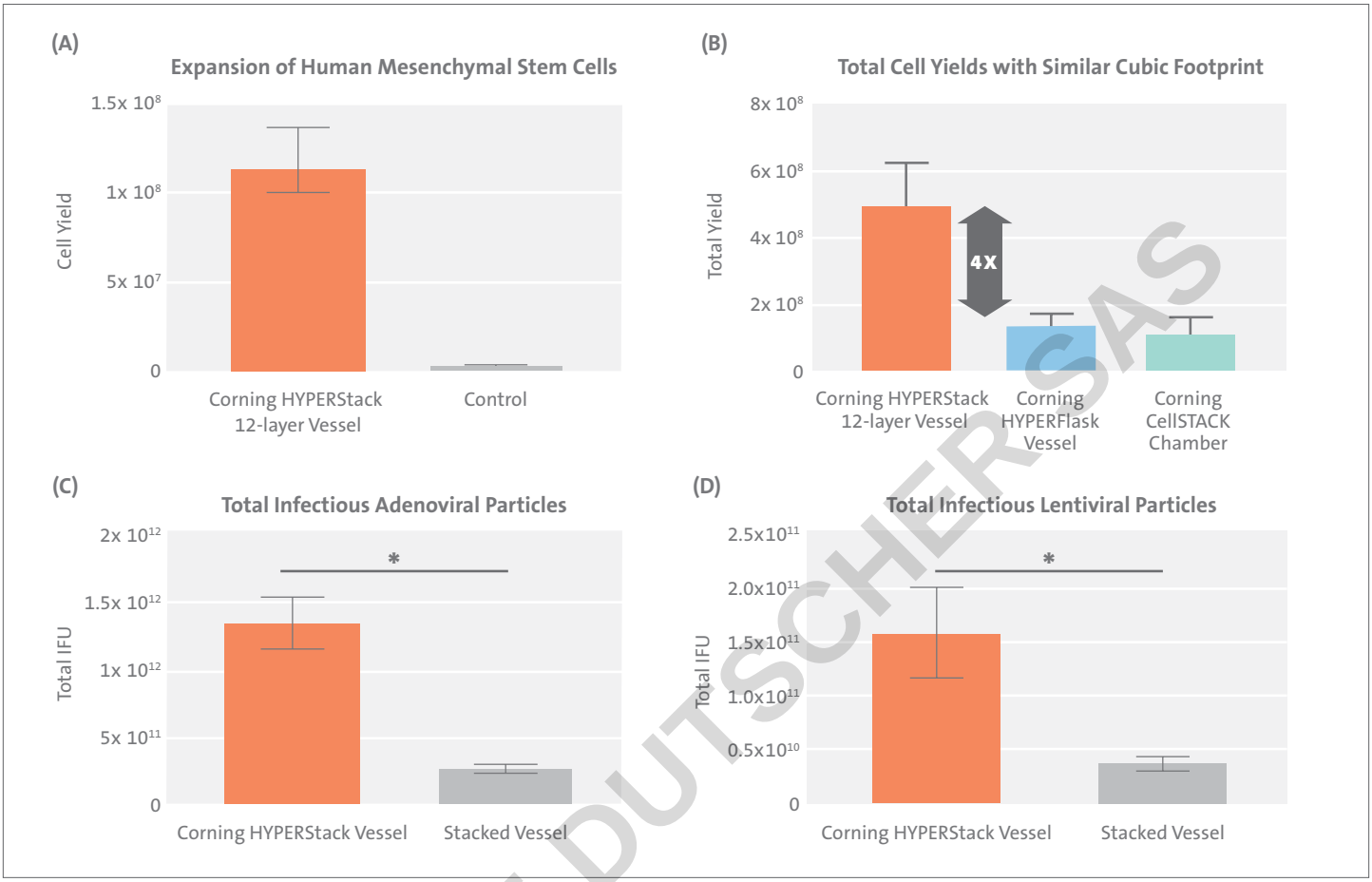


Available with single or dual filters on vent side; MPC or AseptiQuik® G connectors on fill side

Additional Resources

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

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.

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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, AseptiQuik® G connector, sterile	6,000	1	4
23036	HYPERStack 36-layer vessel, CellBIND surface, dual vent filter, AseptiQuik® G connector, sterile	18,000	1	2
23013	HYPERStack 12-layer vessel, non-treated, dual vent filter, AseptiQuik® G connector, sterile	6,000	1	4
23037	HYPERStack 36-layer vessel, non-treated, dual vent filter, AseptiQuik® 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, AseptiQuik® G connectors, 5-link, polypropylene, standard tubing lengths, sterile	1	2
11640	HYPERStack manifold, AseptiQuik® G connectors, 5-link, polypropylene, extended tubing lengths, sterile	1	2

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

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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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Corning Incorporated
Life Sciences

www.corning.com/lifesciences

NORTH AMERICA
t 800.492.1110
t 978.442.2200

ASIA/PACIFIC
Australia/New Zealand
t 61 427286832
Chinese Mainland
t 86 21 3338 4338
India
t 91 124 4604000
Japan
t 81 3-3586 1996
Korea
t 82 2-796-9500
Singapore
t 65 6572-9740
Taiwan
t 886 2-2716-0338

EUROPE
CSEurope@corning.com
France
t 0800 916 882
Germany
t 0800 101 1153
The Netherlands
t 020 655 79 28
United Kingdom
t 0800 376 8660
All Other European Countries
t +31 (0) 206 59 60 51

LATIN AMERICA
grupoLA@corning.com
Brazil
t 55 (11) 3089-7400
Mexico
t (52-81) 8158-8400

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