

Life Science Innovator Since 1966

PrimeSurface® 96 Slit-Well Plate

High Performance Labware for Cell Culture Applications

Developed for 3D Cell Culture Applications in SBS Footprint

Stem Cell Research | Drug Discovery and Development | Tissue Engineering | Regenerative Medicine

PHC Corporation of North America

www.phchd.com/us/biomedical

PrimeSurface 96 Slit-Well Plate

PHC is offering a new slit-well, ultra-low attachment 3D plate to facilitate easy handling of media exchange without disrupting spheroid formation.

Cell culturing involves frequent media replacement to provide nutrition to growing cells. In a standard 96 well ultra low cell attachment plate, media aspiration or dispensing has to be done extremely carefully to avoid disturbing the unattached spheroid, making this a time consuming operation.

With the introduction of the PrimeSurface 96 Slit-Well Plate, media exchange for 96 well plates can be effciently handled with one step dispensing or aspiration for all 96 wells. This product can decrease pipetting time by over 80% while minimizing the risk of spheroid damage.

Key benefits

- Generate and maintain uniform spheroids
- Exchange media without disturbing spheroid formation
- Minimize media exchange time by simultaneous delivery of cell culture media to all 96 wells
- Mitigates the edge effect, and other other common desiccation issues

Time Saving Design

Slit-Well structure allows simultaneous delivery of cell culture medium to all 96 wells



Conventional product: medium is independent in each well

Contact

Lisa Holmquist, PHC Corporation of North America **Phone:** (630) 694-8229 **Email:** lisa.holmquist@us.phchd.com





Slit-Well plate: medium is shared between wells

Customer Testimony, Stanford University

"I found that the organoids grew equally sized in the slit well plate than with either 10cm dishes or traditional 96 well plates. The interconnectedness of the wells also ensures more biological consistency of the different wells. The benefit is the much faster time to feed cultures, which is a significant improvement over individual wells. Feeding also only requires a pipette, while feeding traditional wells requires using media boats and multichannel pipettes, which is much more waste and cost in supplies. This can add up for long term cultures. On the whole, I found them easy to use and very time, energy, and resource efficient."

Features

Minimize media exchange effort and time without disturbing spheroid formation



Conventional plate: Media exchange must be done extremely carefully



Slit-Well plate: One step media exchange by tilting plate and aspirating from corner

Generate and maintain uniform spheroids in long-term cultures



Cell: HepG2 cell Density: 1,000 cells/100 L/well Medium: DMEM+10%FCS Days: 3

Grow larger spheroids in the same well for long-term cultures Growing larger spheroids needs more media. Slit-Well plates allow 1.5 times more media volume compared to conventional plates providing more nutrients for larger spheroids.



Maximum capacity of conventional plate

Approximately **30 ml/plate**

Maximum capacity of PrimeSurface 96 Slit-Well Plate

*200 μL × 96 wells/plate

Specifications

Catalog Number	Product Name	Well Type	Color	Well Bottom Shape	Maximum Well Volume	Package
MS-9096SZ	PrimeSurface 96 Slit-Well Plate	96	Clear	Spindle	0.3 ml	Individual package 20 plates/case

Contact

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Additional Products

Complementary product lines under the PHCbi brand include the space saving and energy efficient VIP® ECO, VIP Series and TwinGuard® ultra-low temperature freezers, cryogenic and biomedical freezers, pharmacy and high performance refrigerators, cell culture CO₂ and multigas incubators, programmable heated and refrigerated microbiological incubators, Class II, Type A2 biological safety cabinets, portable autoclaves, cell processing work stations and Drosophila/Plant Growth Chambers. For more information, please call PHC Corporation of North America at 800-858-8442, email info@us.phchd.com visit http://www.phchd.com/us/biomedical.



PHC Corporation of North America 1300 Michael Drive, Suite A, Wood Dale, IL 60191 Toll Free USA (800) 858-8442, Fax (630) 238-0074 www.phchd.com/us/biomedical

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