

# 3D Cell Culture

## PrimeSurface® 96 Slit-well Plate

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

## PrimeSurface® 96 Slit-well Plate

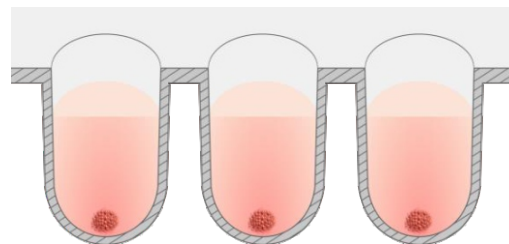
Enhanced Stem Cell Culturing in Regenerative Medicine

A new design of 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 **PrimeSurface® 96 Slit-well Plate**, media exchange for 96 well plates can be efficiently handled with one step dispensing or aspiration for all 96 wells decreasing the pipetting time by over 80% while minimizing the risk of spheroid damage.

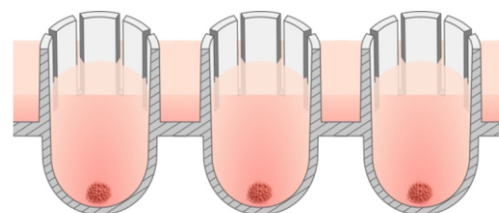
Slit-well structure allows simultaneous delivery of cell culture medium to all 96 wells

Conventional product:  
Each wells are independent

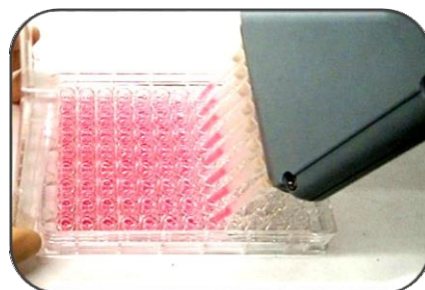


Slit structure design for easy media exchange without being concerned about spheroid detachment or collapse

Slit-well Plate:  
Medium is shared through slit-well design



Feature 1: Minimize media exchange effort and time without disturbing spheroid formation

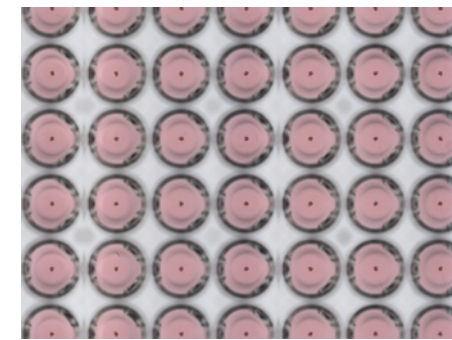


Conventional media exchange



Easy one step media exchange by tilting the plate and aspirating from the corner.

Feature 2: 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

Feature3: Grow larger spheroids in same well for long term cultures

Conventional Plate Capacity

Approx  
**20 mL** <sup>\*</sup> /plate



Maximum Capacity of New Plate

Approx  
**30 mL** /plate

\*200 µL x 96 wells

Growing larger spheroids needs more media. Slit well plates allows 1.5 times more media volume compared to conventional plates providing more nutrients for larger spheroids.

Product Name	Well type	Color	Bottom shape	Maximum Well Volume
PrimeSurface® 96 Slit-well Plate	96	Clear	Spindle	0.3 mL/well

Request Sample Plate at:  
[info.s-bio@s-bio.com](mailto:info.s-bio@s-bio.com) | 603.425.9697

Watch the video at:  
<https://youtu.be/WfFtYd70dM0>



## 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."

S-BIO provides high-performance labware: Quality 3D Cell Culture products for Cancer Spheroid Culturing and Regenerative Medicine, Low Bind products essential for Proteins, Peptides and Cell recovery and High throughput Kits and Services for N-glycan and O-glycan analysis.

### 3D CELL CULTURE RELIABILITY

S-BIO provides superior quality 3D cell culture plates with a variety of well shapes to enable spheroid culturing of your specific cell type.

### LOW BIND LABWARE PRODUCTS

S-BIO provides superior quality low bind labware for sample recovery by preventing protein, peptide and compound loss due to non-specific sticking to surface.

### WE BRING GLYCOMICS TO LIFE®

S-BIO provides glycomics solution for complete structure & binding analysis studies.

S-BIO is a brand for life science products provided by Sumitomo Bakelite Co., Ltd.



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