

SPHERICALPLATE 5D[®]

Ecosystem for Regenerative Medicine



750 spheroids
with one move -
9000 per plate

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- Uniformly sized spheroids
 - Standardized and easy spheroid formation by optimized niche geometry and surface
 - Convenient upscaling without loss of spheroid quality
 - Ability to use for translational research

▶ TURN PIPETTING INTO PUBLISHING

#communicare

▶ Safety First

„Safety First“ is the principle of the cell culture platform Sphericalplate 5D. It has unique specific features to support **uniformity, viability and scalability**.

Our special geometry and surface enable the cells to be integrated within a spheroid giving you unparalleled control over your cell culture. Effortless upscaling, easy medium change and full automation capabilities give you all options for basic and translational research.



▶ Sphericalplate 5D Testimonials

«The Sphericalplate 5D is working wonderfully with my human prostate cancer cell line.»

Dr. Lissette A. Cruz – Postdoctoral Research Fellow, Department of Diagnostic and Biomedical Sciences, University of Texas Health Science Center at Houston USA

«This plate is a game changer. Everyone who needs a lot of clusters needs this plate!»

Prof. Dr. Dr. Maximilian Y. Emmert – Institute for Regenerative Medicine, IREM, University of Zurich

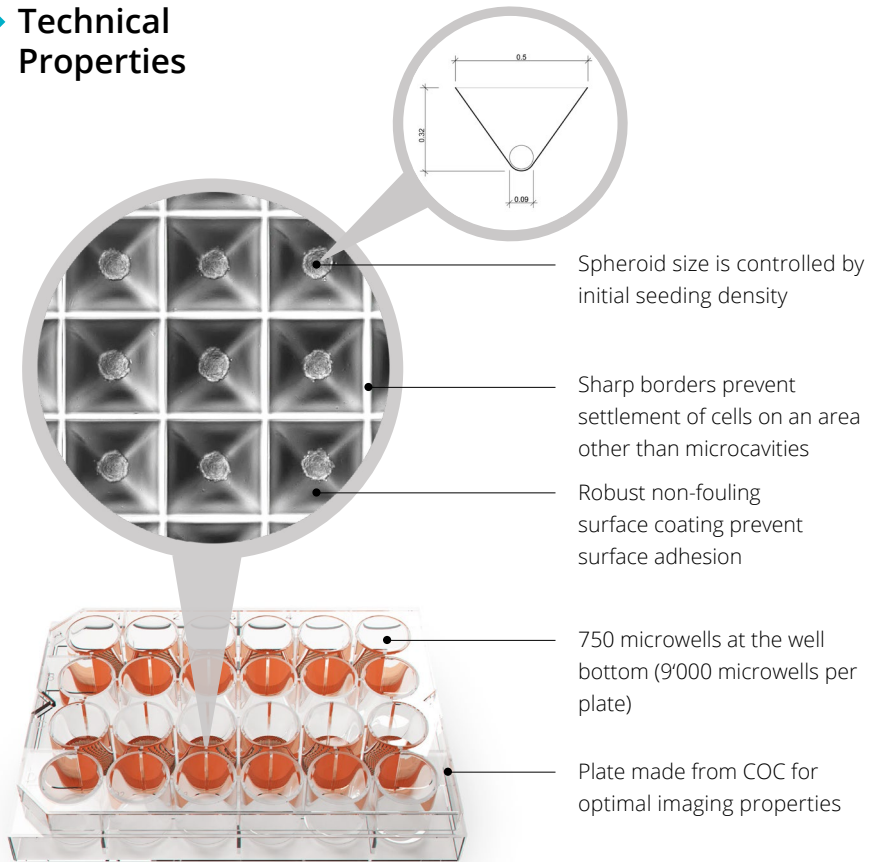
«We just did our first try with #sp5d plates...very happy with the results! very uniform and compac!»

Prof. Chrisna Gouws – Associate Professor at North West University South Africa

«Only with the Sphericalplate 5D from Kugelmeiers we were able to generate embryoid bodies out of different human iPS cell lines. Furthermore, with these plates we were able to scale up our differentiation and increase the yield of cardiomyocytes.»

Dr. Christian Rimbach – RTC University of Rostock, D

Technical Properties



Wells with microwells A1-A6 and C1-C6

Plate material clear and transparent cyclic olefin copolymer (COC)

Surface modification Non fouling coating in wells A1-A6 and C1-C6

Lid material Transparent polystyrene (PS)

Sterility X-Ray irradiated

Number of Microwells

Per well **750**

Per plate **9000**

Volumes / well

Theoretical max. volume **3.0 ml**

Working volume **0.5-2.0 ml**

▶ Cells Successfully Cultivated in the Sphericalplate 5D

human embryonic stem cells

mouse embryonic stem cell line (HM-1)

human mesenchymal stromal cells

Primary islet cells (human, pig, rodents)

Beta cell lines (EndoC- β H1, MIN-6)

Intrahepatic cholangiocyte organoids (ICO)

human amniotic epithelial cells (hAEC)

Primary smooth muscle cells

human umbilical vein endothelial cell line (huVEC)

mouse 3T3 fibroblast cell line

human breast cancer cell lines (BT20, MCF-7)

human prostate cancer cell line (LNCaP)

human lung cancer cell line (A549)

human osteosarcoma cell line (Saos-2)

human adrenal gland cancer cell line

human ovarian cancer cell lines
(OVCAR-3, OAW-42, SK-OV-3)

human liver cancer cell line (HepG2)

human hepatic cells (HepaRG)

human caucasian fetal lung cell line (WI-38)

human glioblastoma cell line

For the generation of: 3D cell cultivation / Embryoid bodies / Tumor spheroids

▶ Commercial Benefits



400x Space Savings*
from factor 80 to 400



60x Time Savings*
minimum 60 times versus multi-channel repeater



90x Cost Reduction*
41 to 150 times compared to other platforms, labour saving not included!

* when compared to classical hanging drop cultures or single spheroid formation per well.

▶ Order Information

Specification

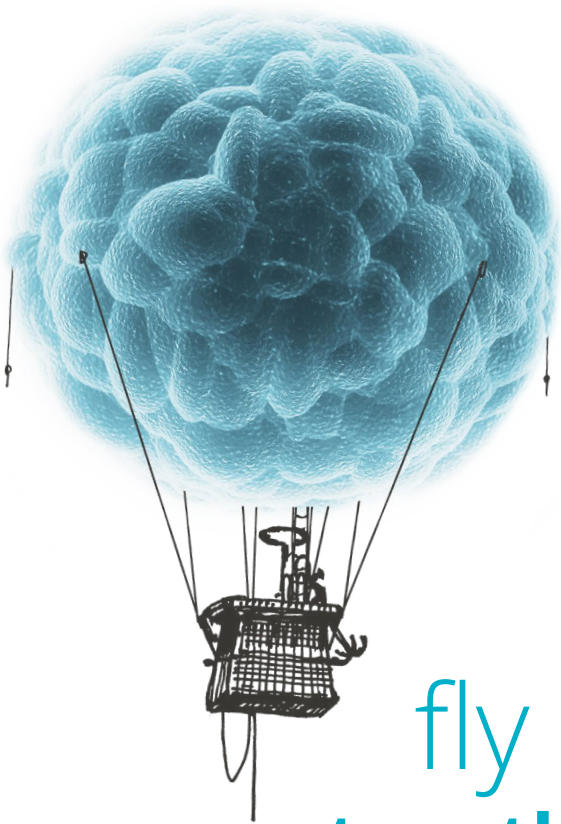
Quantity

Sphericalplate 5D 24-well cell culture with microwells (12)

1 Plate

For price offers please contact

✉ info@kugelmeiers.com



fly high.
together.

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KUGELMEIERS
▶ ENABLING UNLIMITED CELL THERAPIES



Kugelmeiers Ltd. is the manufacturer of the the Sphericalplate 5D®. For research use only. Patents pending.