

CONSISTENT REAGENTS FOR CONSISTENT CULTURES

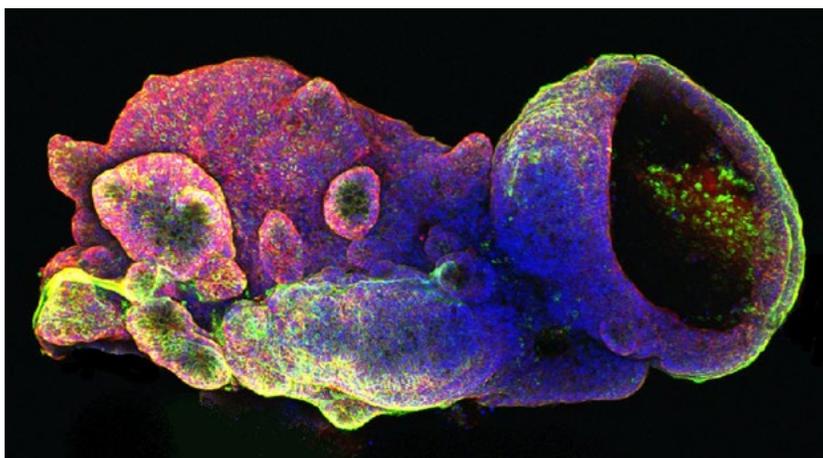
Organoids and 3D cell cultures are emerging as pivotal systems for understanding human organ development, modeling disease, screening for drug efficacy or toxicity, and personalized medicine. The reagents and protocols needed to culture these advanced multi-cellular *in vitro* tissues vary by organ, species, and whether they are being generated from tissue or pluripotent stem cells.

At Bio-Techne we are proud to offer a portfolio of research tools that you can trust for your organoid cultures.

INTRODUCING NEW CULTREX ULTIMATRIX RGF BME

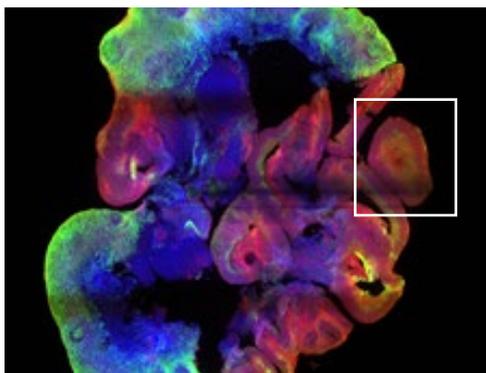
An advanced basement membrane extract (BME) with high tensile strength, elevated and enhanced protein composition ensuring efficacy in organoid cell culture, induced pluripotent stem cell expansion and differentiation, spheroid formation, and other 2D and 3D culture applications.

[LEARN MORE](#)

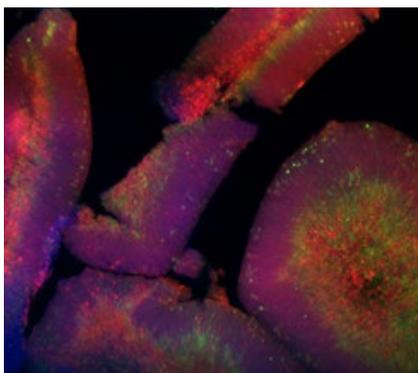


HUMAN BRAIN ORGANOID CULTURED FROM INDUCED PLURIPOTENT CELLS USING BIO-TECHNE REAGENTS AND IN HOUSE VALIDATED PROTOCOL.

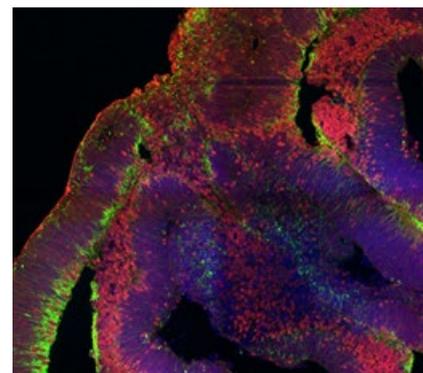
A.



B.



C.



HUMAN BRAIN ORGANOID CULTURED FROM INDUCED PLURIPOTENT CELLS

Cerebral organoids were grown in Cultrex UltiMatrix RGF BME. A) Representative image of iPSC-derived cerebral organoids (day 45) cultured using Cultrex UltiMatrix RGF BME (R&D Systems, Catalog # BME001-05) and stained for Syto16 (blue), Pax6 (red), and Vimentin (green). A) 4x magnification image. B) An enlarged view of the area shown within the white box in part A of the figure. C) 15x magnification image. Images courtesy of LifeCanvas Technologies.

DISCOVER OUR WORKFLOW OFFERINGS FOR BRAIN ORGANOID

CYTOKINES AND GROWTH FACTORS

FGF BASIC

EGF

FGF-2

NT-3



MEDIA SUPPLEMENTS

N-2 MAX SUPPLEMENT Similar to N-2

N21-MAX VITAMIN A FREE SUPPLEMENT
Similar to B27 Supplement Free Supplement

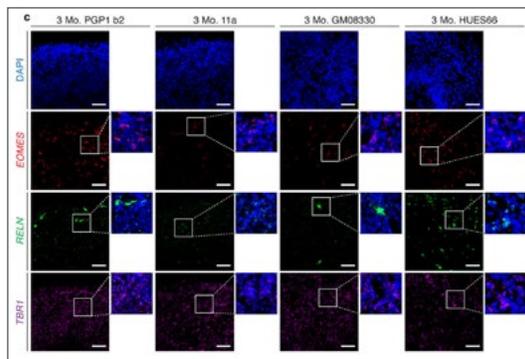
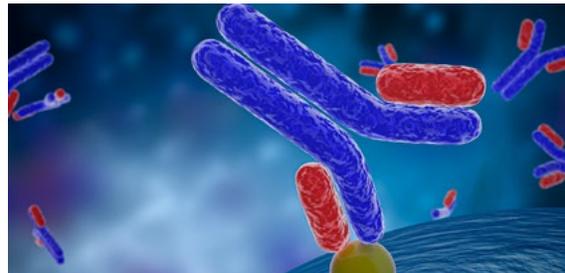
ORGANOID HARVESTING SOLUTION

ANTIBODIES

PROX1 Hippocampus marker

SOX1 Neural inductions

BETA-III TUBULIN (CLONE TUJ-1) Neuronal marker



RNASCOPE *IN SITU* HYBRIDIZATION

NEUN

BETA III TUBULIN

EOMES

NEUROD1

SOX2

TBR1

SMALL MOLECULES

CHIR 99021

Y-27623

SEE ALL ROCK INHIBITORS



Further details | rndsystems.com/products/organoid-and-3d-culture-reagents

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R&D SYSTEMS

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A&D

exosome_x

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FL_Organoid Pack - Brain_STRY0129167