SpheroTribe

The all-in-one kit for easy 3D cell culture

SpheroTribe provides a simple toolkit to generate consistent and robust 3D cell structures without restrictions of cell types.

Simply dilute the SpheroTribe solution into your culture medium of choice, watch your cells turn into 3D spheroids and collect them for your downstream assays.

Full kit contents:

2x racks of 96 large-opening tips, for **safe & easy spheroid handling**

A 2% methylcellulose solution for **boosting cell aggregation**

10x U-bottom 96-well plates, for generating **homogeneous spheroids**

Key features

Easy-to-use

No need to work on ice, have access to sophisticated equipement or expertise. With SpheroTribe, you have everything on hand to grow & handle your spheroids easily.

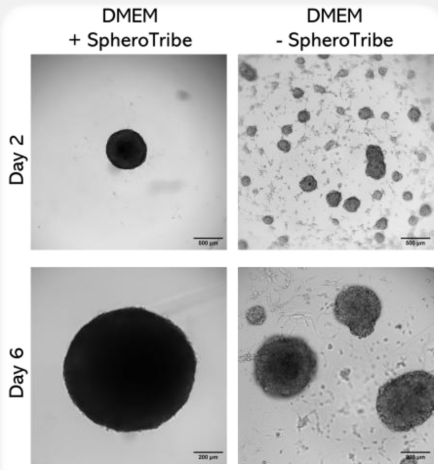
Cell aggregation booster

SpheroTribe provides a gel-like scaffold that favors cell-cell contacts by increasing the medium viscosity. It was shown to improve spheroid formation with some of the most challenging cells, and to speed up stem cell-derived organoid formation.

Increased homogeneity

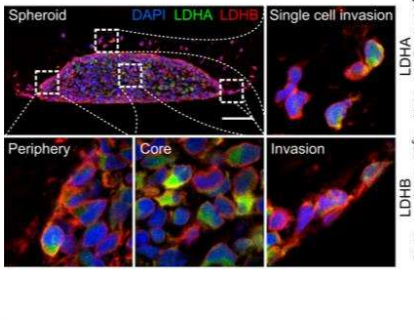
By maximizing cell aggregation, SpheroTribe promotes the formation of unique & uniformly sized spheroids allowing for consistent assays (growth, invasion, immune infiltration, *in vivo* injection, etc).

Results



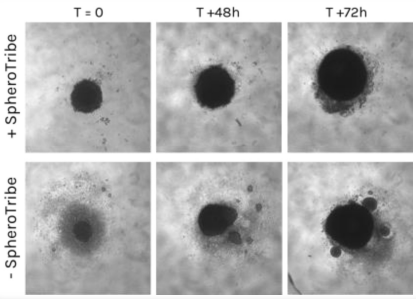
Generation of unique & circular glioblastoma spheroids with SpheroTribe

Human glioblastoma U87 cells were cultured in DMEM with or without SpheroTribe in U-bottom plates and imaged after 2 days (4X magnification) and 6 days (10X magnification).



Compact glioblastoma spheroids generated with SpheroTribe are relevant models to mimic solid tumors

Coronal section of a P3 spheroid embedded with paraffin and stained with DAPI (blue), LDHA (green), and LDHB (red). Magnification boxes show different areas as depicted in the main image. Quantification of LDHA and LDHB staining was performed on the spheroid areas as indicated in the graphs. Scale bar: 100 µm. Credits: Guyon et al, 2022[1]



SpheroTribe improves cardiac organoid formation by boosting hiPSC aggregation

Human iPSCs were seeded in ULA plates in presence (left) or absence (right) of SpheroTribe solution (T = 0) and cultured for 3 days following a self-assembling human heart organoid differentiation protocol.

Credits: Aitor Aguirre, Ph. D. - Michigan State University, US

References:

[1]Guyon, J. et al, Lactate dehydrogenases promote glioblastoma growth and invasion via a metabolic symbiosis. EMBO Mol Med (2022) 14/ e15343, doi:10.15252/emmm.202115343. Find out more detailed information, publications & example results on Idylle website:

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