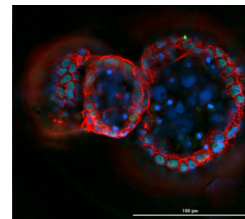
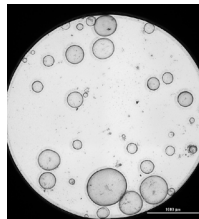


# Agilent Seahorse XF Flex Organoid Microplates

Advanced microplates for culture, metabolic analysis, and high content imaging of embedded 3D organoid samples

Organoids are self-organizing, microscopic 3D structures, which are grown from stem cells in vitro. Organoids present a valuable cellular model for all phases of drug development, due to the fact that the efficacy of a particular pharmaceutical using 3D organoids, compared to 2D cell models, will agree more consistently with what will be seen in vivo.



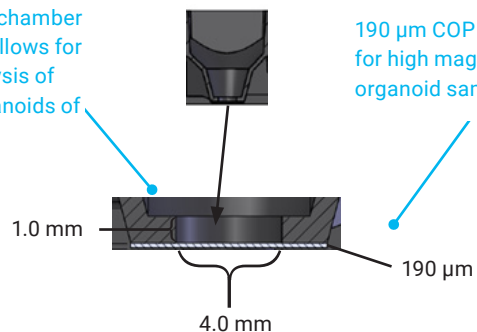
The Agilent Seahorse Organoid microplate provides a novel, robust solution to culture and detect discrete changes in cellular bioenergetics, in real-time, for a variety of embedded organoids. The unique design, which incorporates a 190  $\mu\text{m}$  COP film bottom, also enables high magnification images, including confocal, to be captured in the same well. The combination creates a complete solution to gain valuable information from 3D organoid cell models.

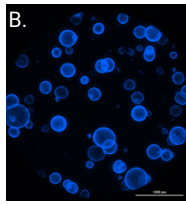
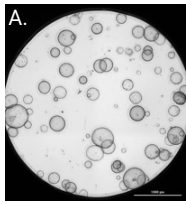


24-well organoid plate accommodates multiple test conditions in one run to reduce processing time

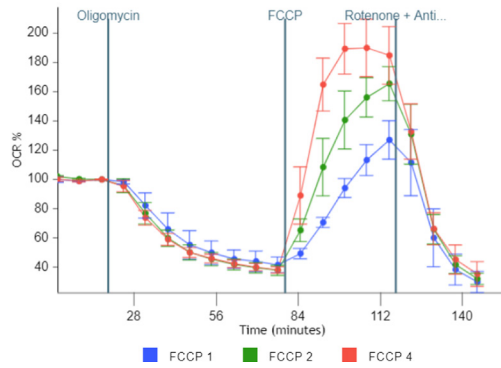
Optimized microchamber size and height allows for culture and analysis of one or more organoids of varying size

190  $\mu\text{m}$  COP film bottom allows for high magnification imaging of organoid samples

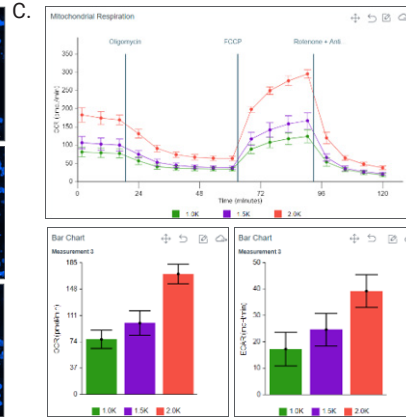
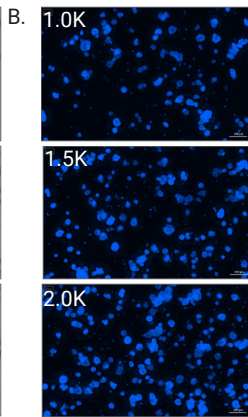
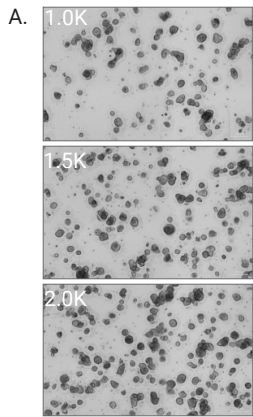




C. Overview



**Figure 1.** FCCP titration for mouse hepatic organoids. Mouse hepatic organoids grown in 10  $\mu$ L Matrigel (> 5 mg/mL) for three days. Agilent Seahorse XF Cell Mito Stress Test performed using three different FCCP concentrations, 1, 2 and 4  $\mu$ M. A.) Z-projected images (4x) of brightfield and B.) DAPI stained organoids. C.) OCR profile normalized by baseline (measurement 3) to identify optimal FCCP concentration which is 4  $\mu$ M.



**Figure 2.** Metabolic profiling of organoids derived from HCT116-H3B-GFP cell line. Cancer cell organoids grown in 10  $\mu$ L Matrigel (5 mg/mL) for 5 days from three different seeding densities, 1.0, 1.5 and 2.0  $\times 10^3$  cells/well on Agilent Seahorse XF Flex Organoid Microplate. A.) Z-projected images (4x) of brightfield and B.) fluorescence-labeled nuclei. C.) Agilent Seahorse XF Cell Mito Stress Test assay results showing incremental OCR and ECAR response corresponding to the organoid density.

## Product ordering information

Part Number	Product Description
103865-100	Seahorse XF Flex Organoid Microplate 6x
103866-100	Seahorse XF Flex Organoid FluxPak
Related Products	
103015-100	Seahorse XF Cell Mito Stress Test kit
103016-100	Seahorse XF 3D Mito Stress Test kit

## Storage requirements

Room temperature (4 to 30  $^{\circ}$ C) for one year from the date of manufacturing.

Learn more:

[www.agilent.com/lifesciences/seahorse-cell-culture-plates](http://www.agilent.com/lifesciences/seahorse-cell-culture-plates)

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