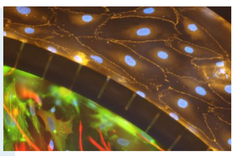
Creative Biolabs® Microfluidics

CBLMF™ Organ-on-chip Cell Culture Platform

High Quality & High Efficiency

Microfluidic organ-on-chip/cell culture platform is a breakthrough tool in modern cell biology and biomedical research, providing scientists with a precisely controlled culture environment that allows them to simulate the growth conditions of tissues and cells in vivo, which can be used for a variety of applications, including organ chip research, drug screening and toxicity testing.



One-Stop Solution For Microfluidic Cell Culture

Precision injection of culture medium	Flow monitoring	Temperature monitoring	Atmosphere control	Humidity adjustment
Fast response time and high stability, and can realize complex microfluidic manipulation such as multi-reagent sequence injection and circulation.	Monitor the flow at a specified point in real time. The patented algorithm ensures the stability, accuracy and reliability of flow monitoring.	Combined with PID control algorithm and high-resolution power output, it can realize stable controlled heating, cooling and constant temperature.	Supports gas concentration control such as CO_2, N_2, etc.	The maximum working flow is 5L/min, and the humidity control range is 5%~95%.

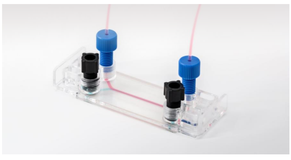
5 Modules Achieving Precise Experimental Control

Compatible With Various Organ/Cell Culture Chips

2D/3D cell culture

The platform can realize common 2D/3D culture, which is suitable for epithelial cell culture, toxicity testing, absorption testing, air-liquid interface (ALI) culture and other studies.

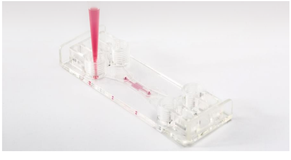
Recommended chips:
BE-Flow Standard (CAT#: MFMM1-GJS1),
BE-Transflow Standard (CAT#: MFMM1-GJS3)



Circulation culture

Suitable for application scenarios that require circulation, such as research on metabolite accumulation, drug concentration attenuation, bacterial infection, circulating tumor cells, etc.

Recommended chips:
BE-Doubleflow Standard (CAT#: MFMM1-GJS4)



Concentration gradient culture

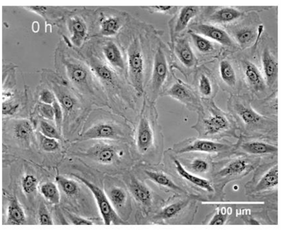
The platform can be used for concentration gradient culture in 3D cell culture. This chip consists of a central cell culture chamber and three long channels connected to the central chamber.

Recommended chips:
BE-Gradient Standard (CAT#: MFMM1-GJS2)

Example Report

Comparison of Human Umbilical Vein Endothelial Cells (HUVEC) cultured in static state and under flow conditions in microfluidics.

Static | **Flow (20 dyn/cm²)**



HUVEC

To learn more detail information about our CBLMF™ Droplet Generation All-in-one System, please check our website.

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