

BE-GRADIENT is a versatile microfluidic device for cell culture under biomimetic conditions. It allows to perform cell cultures under chemical gradients. The optical transparency of the polymers used make possible monitor experiments with phase contrast, fluorescence and confocal microscopy.

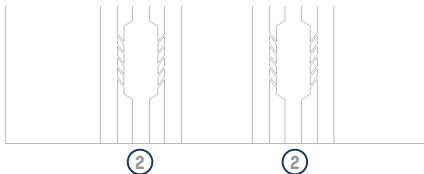
Examples of applications are cell/spheroid invasion and migration, angiogenesis, metastasis, vasculogenesis, chemotaxis, ischemia, cell differentiation or oxidative stress.

For further information, please visit <https://beonchip.com> or contact BEONCHIP

MATERIAL

BE-GRADIENT chips are made of biocompatible plastic and are gas-impermeable, for effective gradients of CO₂, O₂, etc. They have excellent optical properties, with high transparency and low auto-fluorescence.

TECHNICAL FEATURES

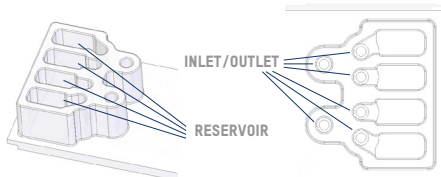


Channel	Height	Width	Lenght	Total Volume
Lateral 1	300 µm	1 mm	50 mm	14,5 µL
Central 2	300 µm	1 mm	39 mm	12,6 µL
Lateral 3	300 µm	1 mm	50 mm	14,5 µL

	Height	Length	Width	Volume
Chamber 2	300 µm	4'6 mm	2 mm	3 µL
Inlet/Outlet	8 mm	Ø = 2'3 mm		18'4 µL
Reservoir	6 mm	3'6 mm	7 mm	151'2 µL

CONTENT

The product reaches the user sterilized (10 Be-Gradient per box). It can be stored in dry places which are not exposed to direct sunlight at room temperature (15-25°C).



CELL CULTURE COATING

BE-GRADIENT chips have been treated to obtain an hydrophilic surface that facilitates filling the devices with aqueous solutions and/or gels and promotes cell adhesion.

In case of a certain coating is required, prepare your coating solution (Collagen I, Collagen IV, Fibronectin, Poly-L-Lysine, Poly-D-Lysine...) according to the manufacturer's instructions and apply it into the central channel. Aspirate the channel and wash with distilled water to remove excess coating solution by using 5-10 times the volume of the channel.