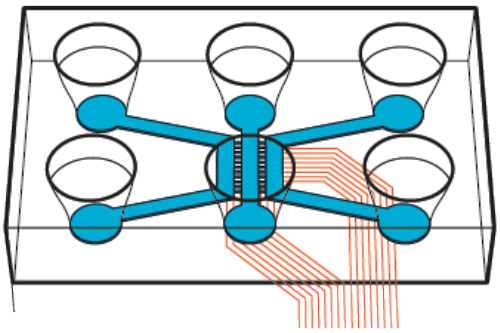
TRIALINK™ MEA

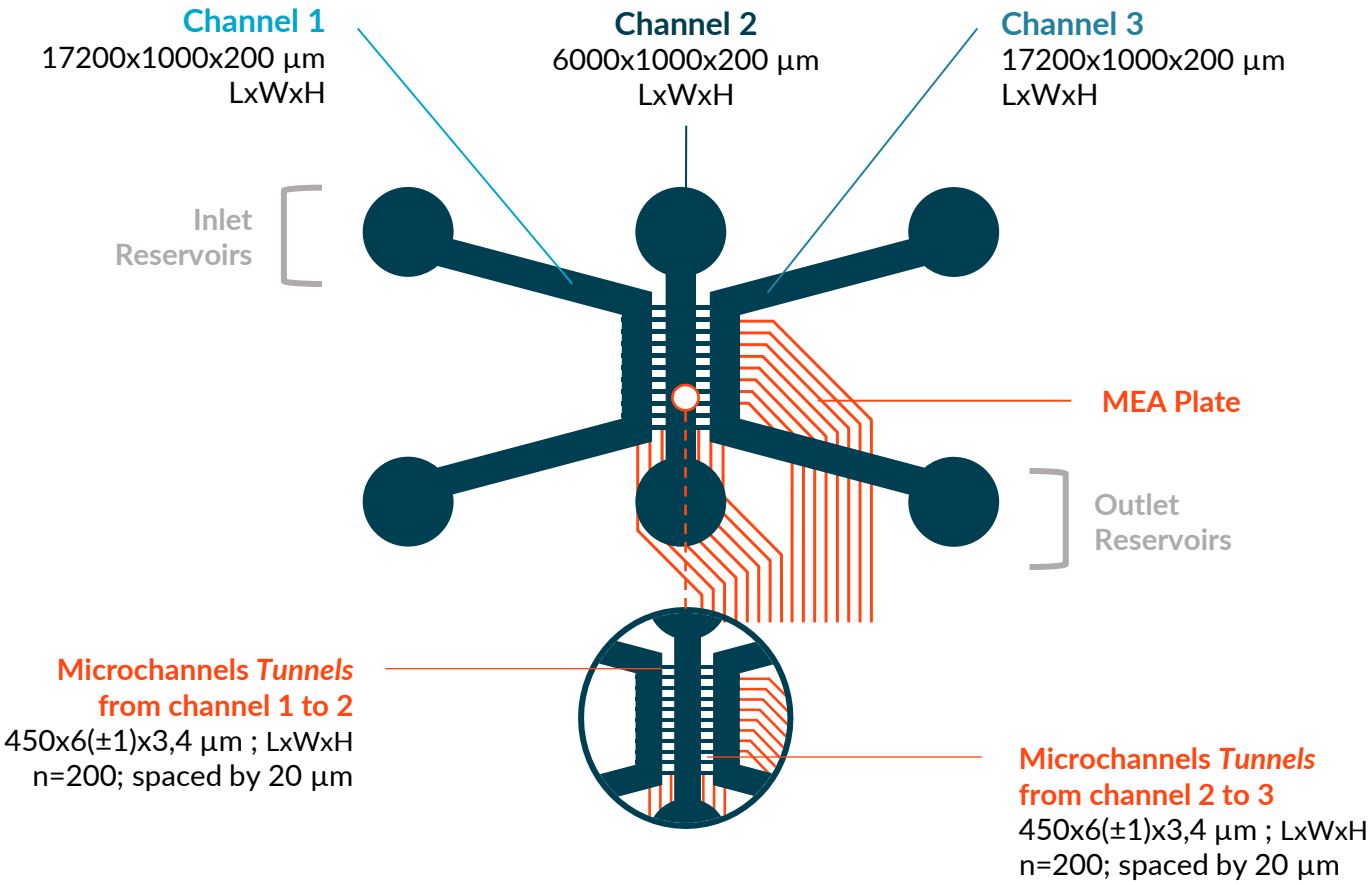


The TriaLink™ MEA is a 3-compartments chip connected by microchannels *tunnels* technology that allow discontinious connectivity and crowned on a MicroElectrod Array (MEA) Plate.

3 compartments for cell culture.

Due to their micron scale, only cell extensions can grow within the microchannels, leaving the cell bodies withing the compartments themselves.

TECHNICAL SPECIFICATIONS



Surface Area

Channel 1
17.20 mm² (31.34 mm² with reservoirs)
Channel 2
6 mm² (15.34 mm² with reservoirs)
Channel 3
17.20 mm² (31.34 mm² with reservoirs)

Volumes

Channel 1
3.4 µL (117.3 µL with reservoirs)
Channel 2
1.2 µL (115.1 µL with reservoirs)
Channel 3
3.4 µL (117.3 µL with reservoirs)

Formats

Microfluidic chip
3x2 wells
QuarterBentos™
4 chips
(52,6x34,6x6,2)
NeoBento™
SLAS standard 96-well plate
(127,8x85,5x17,1 mm)

Materials

Microfluidic chip
PolyDiMethylSiloxane biocompatible and low compound absorbing
(layer 170 µm thick + refractive index: 1.4)
NeoBento™
Polystyrene (1.4 mm thick + refractive index: 1.59)

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TRIALINK™ MEA

APPLICATIONS

Neurological applications

- Culture up to 3 different cell populations (neurons/glial cells or neurons/skin cells...)
- Cell migration/chemotaxis (microglia cells for example)
- Stress effect on skin cells (ROS...)
- Neuroinflammation (Multiple sclerosis, Cerebral tumors...)
- Analysis of the functional influence of a non-neuronal cell population on neurons

And more...

READOUTS

- Structural and functional analysis
- Electrophysiology
- Lysis Cell Analysis (LC / MS)
- Live Dead Assays
- Live Staining
- ImmunoFluorescence
- ELISA Active Biomarkers
- Calcium Imaging
- Human cells (apparently healthy, diseased, engineered...)
- Rodent cells

MORE INFORMATION

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