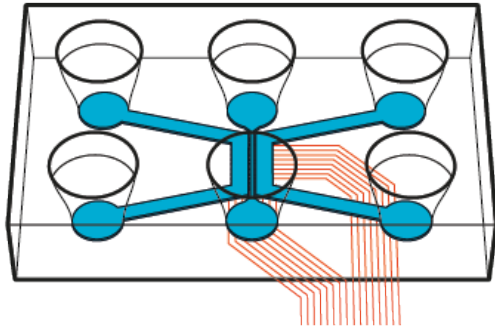


# DUALINK™ MEA

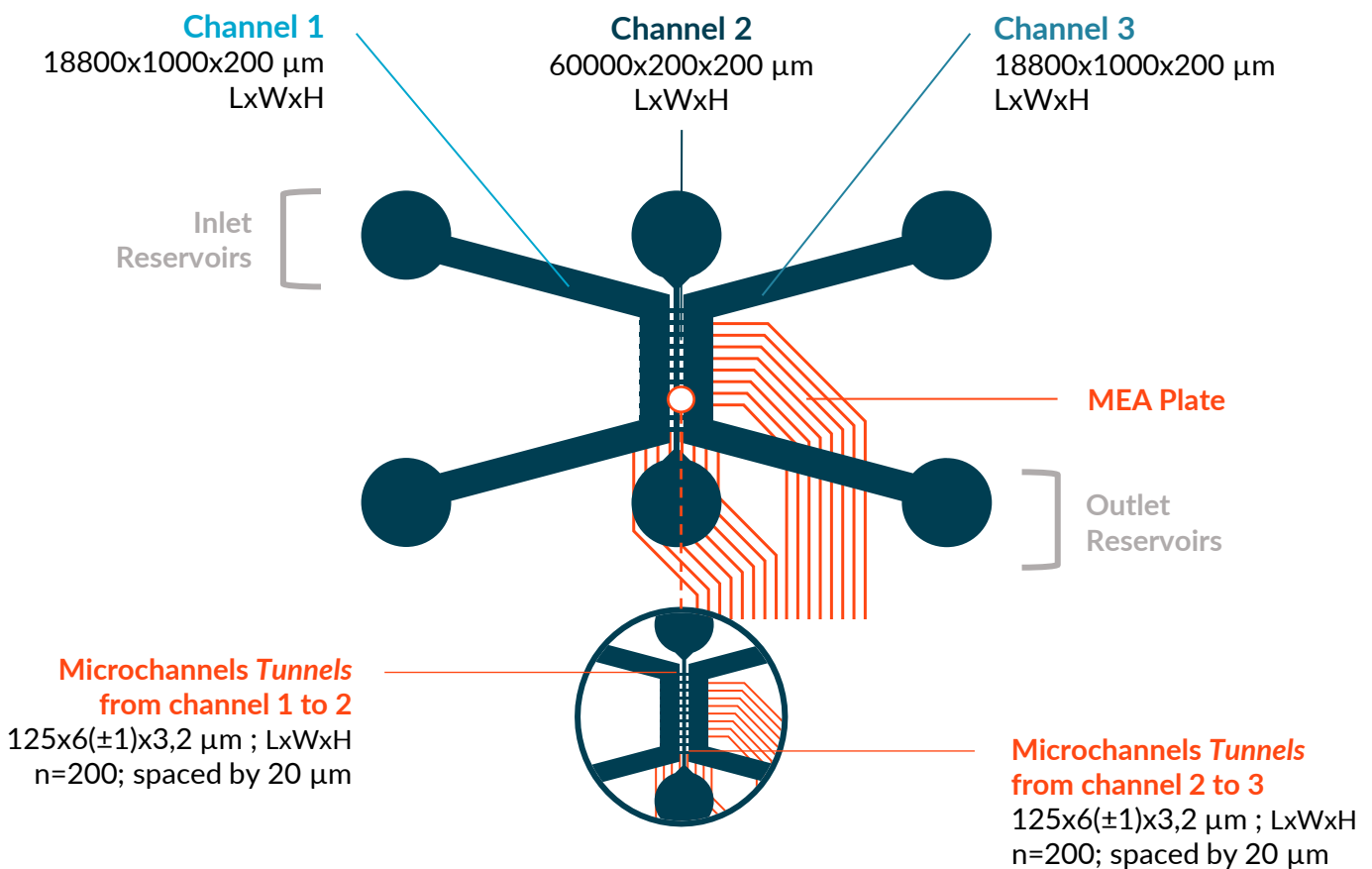


The DuaLink™ MEA is a 3-compartments chip, connected by microchannels *tunnels* technology that allow discontinuous connectivity and crowned on a MicroElectrod Array (MEA) Plate.

2 compartments for cell culture and 1 for fluidic isolation.

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

## TECHNICAL SPECIFICATIONS



### Surface Area

**Channel 1**  
18.8 mm<sup>2</sup> (32.9 mm<sup>2</sup> with reservoirs)  
**Channel 2**  
1.2 mm<sup>2</sup> (15.3 mm<sup>2</sup> with reservoirs)  
**Channel 3**  
18.8 mm<sup>2</sup> (32.9 mm<sup>2</sup> with reservoirs)

### Volumes

**Channel 1**  
3.8 μL (117.7 μL with reservoirs)  
**Channel 2**  
0.24 μL (114.1 μL with reservoirs)  
**Channel 3**  
3.8 μL (117.7 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)

# DUALINK™ MEA

## APPLICATIONS

### Neurological applications

- Co-culture (neurons/skin cells, neurons/glial cells...)
- Analysis of the functional influence of a non-neuronal cell population on neurons
- Axonal transport
- Neuroinflammation (Multiple sclerosis, Cerebral tumors...)
- Innervated skin
- Neuromuscular junction
- Motor neuron diseases (Amyotrophic Lateral Sclerosis...)

### Neuro-Cosmetic applications

- Skin nociception
- Itch
- Ageing
- Wound healing

### Neuro-Toxicology applications

- ADME
- Preclinical Drug screening
- Quantitative assays
- Virology (viral transfection in one compartement only)

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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