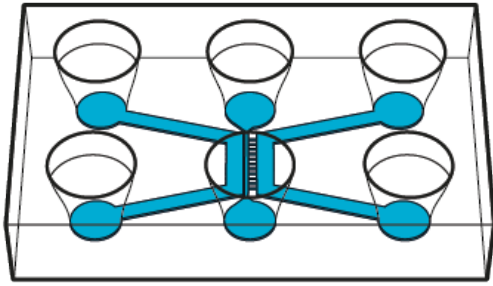


# DUALINK™ SHIFT

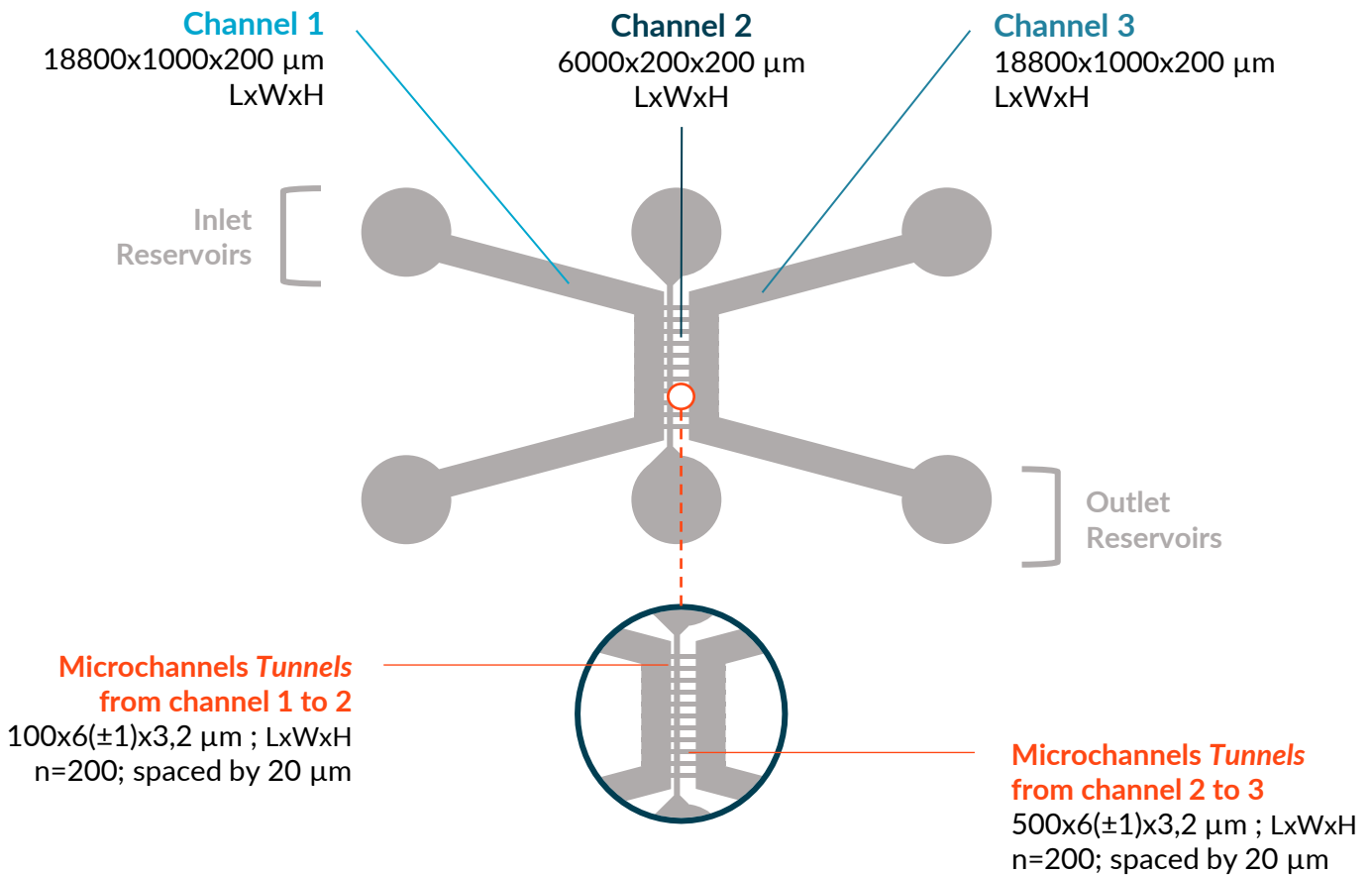


The Dualink™ Shift is a 3-compartments chip, with asymmetrical shape, connected by microchannels *tunnels* technology that allow discontinuous connectivity and synaptic isolation.

2 compartments for cell culture and 1 for synaptic creation.

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™ SHIFT

## APPLICATIONS

### Neurological applications

- Synaptic compartmentalization (pre-, post- and synaptic compartments)
- Synaptic transmission and localization
- Axonal transport
- Mitochondrial transport
- Microglial cells migration
- Culture up to 3 different cell populations
- Neuroinflammation
- Huntington's disorders (cortico-striatal)

And more...

## READOUTS

- 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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