

## NeuroFluidics NeoBento Trialink MEA EDGE (Acro Certified)

Catalog No.: NFTLMEA-3

### NeuroFluidics MEA Line

MEA-capable high-throughput compartmentalized organs-on-chip devices for 2D cell culture & its utility software

- Achieves the fusion of electrophysiology and microfluidics
- MEA-capable compartmentalized microfluidic devices
- In collaboration with Axion Biosystems

Features	
Specially designed to <b>monitor the functional activity of 3 physiological compartments of cell populations.</b>	
<ul style="list-style-type: none"> <li>• EDGE Version: 8 Chips per plate (the top half) with 336 electrodes</li> <li>• Cell type electrophysiology activity isolation per compartment &amp; remote stimulation</li> </ul>	
Technical Specifications	
<b>Surface Area:</b>	<ul style="list-style-type: none"> <li>• Channel 1: 17200 × 1000 × 200 μm (L × W × H), 17.20 mm<sup>2</sup> (31.34 mm<sup>2</sup> with reservoirs)</li> <li>• Channel 2: 6000 × 1000 × 200 μm (L × W × H), 6 mm<sup>2</sup> (15.34 mm<sup>2</sup> with reservoirs)</li> <li>• Channel 3: 17200 × 1000 × 200 μm (L × W × H), 17.20 mm<sup>2</sup> (31.34 mm<sup>2</sup> with reservoirs)</li> <li>• Microchannels Tunnels: 450 × 6 (±1) × 3,4 μm (L × W × H); n=200; spaced by 20 μm</li> </ul>
<b>Volumes:</b>	<ul style="list-style-type: none"> <li>• Channel 1: 3.4 μL (117.3 μL with reservoirs)</li> <li>• Channel 2: 1.2 μL (115.1 μL with reservoirs)</li> <li>• Channel 3: 3.4 μL (117.3 μL with reservoirs)</li> </ul>
<b>Materials:</b>	<ul style="list-style-type: none"> <li>• Microfluidic chip: PolyDiMethylSiloxane biocompatible and low compound absorbing (refractive index: 1.4)</li> <li>• NeoBento: Polystyrene (1.4 mm thick + refractive index: 1.59)</li> <li>• MEA Surface: PET (125 μm thick + refractive index: 1.64) SU8 (5 μm coating) PEDOT-coated gold electrodes</li> </ul>
<b>Formats:</b>	<ul style="list-style-type: none"> <li>• Microfluidic chip: 3 × 2 wells</li> <li>• QuarterBentos: 4 chips (52,6 × 34,6 × 6,2)</li> <li>• NeoBento: SLAS standard 96-well plate (127,8 × 85,5 × 17,1 mm)</li> </ul>
Functions and Readouts	
<b>Capabilities:</b>	<ul style="list-style-type: none"> <li>• Co-culture &amp; compartmentalization</li> <li>• hiPSC derived cell</li> <li>• Axonal transport</li> <li>• Functional analysis</li> </ul>
<b>Applications:</b>	<ul style="list-style-type: none"> <li>• Cell migration &amp; chemotaxis (microglia cells)</li> <li>• Stress effect on skin cells</li> <li>• Neuroinflammation</li> </ul>
<b>Readouts:</b>	<ul style="list-style-type: none"> <li>• Immunofluorescence</li> <li>• Live Dead Assays</li> <li>• Live Staining</li> <li>• Liquid chromatography</li> <li>• Mass Spectroscopy</li> <li>• Lysis cell/supernatant analysis</li> <li>• ELISA</li> <li>• Calcium Imaging</li> </ul>

# Product Data Sheet (DS)



	<ul style="list-style-type: none"><li>• Electrophysiology</li></ul>
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