

## NeuroFluidics NeoBento Trialink FULL (Acro Certified)

Catalog No.: NFTL-2

### NeuroFluidics Line

High-throughput compartmentalized organs-on-chip devices for 2D cell culture

- Variety of architectures and related applications
- Variety of readouts compatibility
- Microchannels compartmentalization

Features	
Specially designed to <b>recreate different cellular microenvironment for co-culture of 3 different cell types with fluidic isolation.</b>	
<ul style="list-style-type: none"> <li>• FULL Version: 16 Chips &amp; Data points per plate</li> <li>• Discontinuous connectivity</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 (layer 170 μm thick + refractive index: 1.4)</li> <li>• NeoBento: Polystyrene (1.4 mm thick + refractive index: 1.59)</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> <li>• Electrophysiology</li> </ul>



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