

## NeuroFluidics NeoBento Dualink LIGHT (Acro Certified)

Catalog No.: NFDL-1

### 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 2 different cell types with fluidic isolation.</b>	
<ul style="list-style-type: none"> <li>• LIGHT Version: 8 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: 18800 × 1000 × 200 μm (L × W × H), 18.8 mm<sup>2</sup> (32.9 mm<sup>2</sup> with reservoirs)</li> <li>• Channel 2: 6000 × 200 × 200 μm (L × W × H), 1.2 mm<sup>2</sup> (15.3 mm<sup>2</sup> with reservoirs)</li> <li>• Channel 3: 18800 × 1000 × 200 μm (L × W × H), 18.8 mm<sup>2</sup> (32.9 mm<sup>2</sup> with reservoirs)</li> <li>• Microchannels Tunnels: 125 × 6 (±1) × 3,2 μm (L × W × H); n=200; spaced by 20 μm</li> </ul>
<b>Volumes:</b>	<ul style="list-style-type: none"> <li>• Channel 1: 3.8 μL (117.7 μL with reservoirs)</li> <li>• Channel 2: 0.24 μL (114.1 μL with reservoirs)</li> <li>• Channel 3: 3.8 μL (117.7 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>• Drug screening</li> <li>• Innervated skin</li> <li>• Toxicology</li> <li>• Virology</li> <li>• Neuroinflammation</li> <li>• Neuromuscular junction</li> <li>• Motor neuron diseases</li> <li>• Study of the functional activity of neurons</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> </ul>

# Product Data Sheet (DS)



	<ul style="list-style-type: none"><li>• Lysis cell/supernatant analysis</li><li>• ELISA</li><li>• Calcium Imaging</li><li>• Electrophysiology</li></ul>
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1 Innovation Way  
Newark, DE19711 United States  
[www.acrobiosystems.com](http://www.acrobiosystems.com)

+1 800-810-0816 (USA / Canada)  
+86 400-682-2521 (Asia & Pacific)  
[techsupport@acrobiosystems.com](mailto:techsupport@acrobiosystems.com)