

NeuroFluidics NeoBento Dualink FULL (Acro Certified)

Catalog No.: NFDL-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 recreate different cellular microenvironment for co-culture of 2 different cell types with fluidic isolation.	
• FULL Version: 16 Chips & Data points per plate • Discontinuous connectivity	
Technical Specifications	
Surface Area:	• Channel 1: $18800 \times 1000 \times 200 \mu\text{m}$ (L $\times$ W $\times$ H), 18.8 mm^2 (32.9 mm^2 with reservoirs) • Channel 2: $6000 \times 200 \times 200 \mu\text{m}$ (L $\times$ W $\times$ H), 1.2 mm^2 (15.3 mm^2 with reservoirs) • Channel 3: $18800 \times 1000 \times 200 \mu\text{m}$ (L $\times$ W $\times$ H), 18.8 mm^2 (32.9 mm^2 with reservoirs) • Microchannels Tunnels: $125 \times 6 (\pm 1) \times 3,2 \mu\text{m}$ (L $\times$ W $\times$ H); n=200; spaced by $20 \mu\text{m}$
Volumes:	• Channel 1: $3.8 \mu\text{L}$ ($117.7 \mu\text{L}$ with reservoirs) • Channel 2: $0.24 \mu\text{L}$ ($114.1 \mu\text{L}$ with reservoirs) • Channel 3: $3.8 \mu\text{L}$ ($117.7 \mu\text{L}$ with reservoirs)
Materials:	• Microfluidic chip: PolyDiMethylSiloxane biocompatible and low compound absorbing (layer $170 \mu\text{m}$ thick + refractive index: 1.4) • NeoBento: Polystyrene (1.4 mm thick + refractive index: 1.59)
Formats:	• Microfluidic chip: 3×2 wells • QuarterBentos: 4 chips ($52,6 \times 34,6 \times 6,2$) • NeoBento: SLAS standard 96-well plate ($127,8 \times 85,5 \times 17,1 \text{ mm}$)
Functions and Readouts	
Capabilities:	• Co-culture & compartmentalization • hiPSC derived cell • Axonal transport • Functional analysis
Applications:	• Drug screening • Innervated skin • Toxicology • Virology • Neuroinflammation • Neuromuscular junction • Motor neuron diseases • Study of the functional activity of neurons
Readouts:	• Immunofluorescence • Live Dead Assays • Live Staining • Liquid chromatography

Product Data Sheet (DS)



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| | <ul style="list-style-type: none">• Mass Spectroscopy• Lysis cell/supernatant analysis• ELISA• Calcium Imaging• Electrophysiology |
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