NeuroFluidics NeoBento Dualink SHIFT LIGHT (Acro Certified)

Catalog No.: NFDLS-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 **recreate synapses isolation and monitor axonal growth kinetics.** • LIGHT Version: 8 Chips & Data points per plate • Discontinuous connectivity • Asymmetrical shape with microchannels of different length (shorter length between the first and second channel than between the second and third channel).	
Technical Specifications	
Surface Area:	• Channel 1: 18800 × 1000 × 200 µm (L × W × H), 18.8 mm² (32.9 mm² with reservoirs) • Channel 2: 6000 × 200 × 200 µm (L × W × H), 1.2 mm² (15.3 mm² with reservoirs) • Channel 3: 18800 × 1000 × 200 µm (L × W × H), 18.8 mm² (32.9 mm² with reservoirs) • Microchannels Tunnels: 100 × 6 (±1) × 3,2 µm (L × W × H) for channel 1 to 2; 500 × 6 (±1) × 3,2 µm (L × W × H) for channel 2 to 3; n=200; spaced by 20 µm
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)
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)
Formats:	• Microfluidic chip: 3 × 2 wells • QuarterBentos: 4 chips (52,6 × 34,6 × 6,2) • NeoBento: SLAS standard 96-well plate (127,8 × 85,5 × 17,1 mm)
Functions and Readouts	
Capabilities:	• Co-culture & compartmentalization • hiPSC derived cell • Synaptic isolation • Functional analysis
Applications:	• Study of synapses (pre-, post- and synaptic compartment) • Synaptic transmission and localization • Mitochondrial transport • Microglial cells migration • Neuroinflammation
Readouts:	• Immunofluorescence • Live Dead Assays • Live Staining • Liquid chromatography • Mass Spectroscopy • Lysis cell/supernatant analysis

1 Innovation Way
Newark, DE19711 United States
www.acrobiosystems.com

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

	• ELISA • Calcium Imaging • Electrophysiology

Acro Certify Disclaimer

This product is one of ACROBiosystems' Acro Certify products. ACROBiosystems and our Acro Certify partners have established a close partnership that includes an in-depth review of quality management and quality audits this product. Products from our Acro Certify partners have been qualified by ACROBiosystems to be included under Acro Certify. ACROBiosystems may provide Product information, including technical information, specifications, recommendations, literature, and other material (collectively, "Product Information") for customer's convenience. The accuracy and completeness of Product Information is not guaranteed and is subject to change without notice. ACROBiosystems is not responsible for the intellectual property or impact to intellectual property for products sold under Acro Certify.