Product Data Sheet (DS)

NeuroFluidics NeoBento Trialink MEA PRO (Acro Certified)

Catalog No.: NFTLMEA-4

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 **monitor the functional activity of 3 physiological compartments of cell populations.** • PRO Version: 16 Chips with 672 electrodes per plate • Cell type electrophysiology activity isolation per compartment & remote stimulation	
Technical Specifications	
Surface Area:	• Channel 1: 17200 × 1000 × 200 µm (L × W × H), 17.20 mm² (31.34 mm² with reservoirs) • Channel 2: 6000 × 1000 × 200 µm (L × W × H), 6 mm² (15.34 mm² with reservoirs) • Channel 3: 17200 × 1000 × 200 µm (L × W × H), 17.20 mm² (31.34 mm² with reservoirs) • Microchannels Tunnels: 450 × 6 (±1) × 3,4 µm (L × W × H); n=200; spaced by 20 µm
Volumes:	• Channel 1: 3.4 µL (117.3 µL with reservoirs) • Channel 2: 1.2 µL (115.1 µL with reservoirs) • Channel 3: 3.4 µL (117.3 µL with reservoirs)
Materials:	• Microfluidic chip: PolyDiMethylSiloxane biocompatible and low compound absorbing (refractive index: 1.4) • NeoBento: Polystyrene (1.4 mm thick + refractive index: 1.59) • MEA Surface: PET (125 µm thick + refractive index: 1.64) SU8 (5 µm coating) PEDOT-coated gold electrodes
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 • Axonal transport • Functional analysis
Applications:	• Cell migration & chemotaxis (microglia cells) • Stress effect on skin cells • Neuroinflammation
Readouts:	• Immunofluorescence • Live Dead Assays • Live Staining • Liquid chromatography • Mass Spectroscopy • Lysis cell/supernatant analysis • ELISA • Calcium Imaging

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

	• Electrophysiology

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