

NeuroFluidics Dualink MEA Starter Kit (Acro Certified)

Catalog No.: NFKDLMEA-3

The kit is composed of:

- Functional activity recording
- 1 or 2 cell types electrophysiology activity isolation per compartment
- Compatible with lab equipments and imaging & biochimic analysis readouts
- 4 QuarterBentos (16 data points) of chosen architecture
- 2 NeoBento MEA EDGE with 4 plugs
- Training on microfluidics & MEA-recording and 1-hour support meeting
- Available on demand with Rodent DRG

Features	
Specially designed to monitor the functional activity of 2 physiological compartments of cell populations	
<ul style="list-style-type: none"> • EDGE Version: 8 Chips per plate (the top half) with 336 electrodes • Cell type electrophysiology activity isolation per compartment & remote stimulation 	
Technical Specifications	
Surface Area:	<ul style="list-style-type: none"> • 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: 125 × 6 (±1) × 3,2 μm (L × W × H); n=200; spaced by 20 μm
Volumes:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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) • MEA Surface: PET (125 μm thick + refractive index: 1.64) SU8 (5 μm coating) PEDOT-coated gold electrodes
Formats:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Co-culture & compartmentalization • hiPSC derived cell • Axonal transport • Functional analysis
Applications:	<ul style="list-style-type: none"> • Drug screening • Innervated skin • Toxicology • Virology • Neuroinflammation • Neuromuscular junction • Motor neuron diseases

Product Data Sheet (DS)



	<ul style="list-style-type: none">• Study of the functional activity of neurons
Readouts:	<ul style="list-style-type: none">• Immunofluorescence• Live Dead Assays• Live Staining• Liquid chromatography• Mass Spectroscopy• Lysis cell/supernatant analysis• 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.



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