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** • 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:	• 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:	• 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) • 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:	• Drug screening • Innervated skin • Toxicology • Virology • Neuroinflammation • Neuromuscular junction • Motor neuron diseases

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	• Study of the functional activity of neurons
Readouts:	• Immunofluorescence • Live Dead Assays • Live Staining • Liquid chromatography • Mass Spectroscopy • Lysis cell/supernatant analysis • ELISA • Calcium Imaging • Electrophysiology