

NeuroFluidics Sensory Neurons MEA Kit (Acro Certified)

Catalog No.: NFKSNDLMEA-3

Specially designed to provide relevant models for PNS applications, sensory neurons MEA organs-on-chip kit is composed of:

- 4 QuarterBentos of chosen architecture
- 2 NeoBentos frames with 4 plugs
- 2 axoCells™ human iPSC-Derived Sensory Neuron Progenitors (Male) 0.5 million cells vial (ax0055)
- Coating and media solutions
- 1-hour of support meeting and online training on microfluidics, UpLink and electrophysiology

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 • Study of the functional activity of neurons

Product Data Sheet (DS)



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
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Acro Certify Disclaimer

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