

NeuroFluidics NeoBento Trialink LIGHT (Acro Certified)

Catalog No.: NFTL-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 | |
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| Specially designed to recreate different cellular microenvironment for co-culture of 3 different cell types with fluidic isolation. | |
| <ul style="list-style-type: none"> • LIGHT Version: 8 Chips & Data points per plate • Discontinuous connectivity | |
| Technical Specifications | |
| Surface Area: | <ul style="list-style-type: none"> • 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: | <ul style="list-style-type: none"> • 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: | <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) |
| 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"> • Cell migration & chemotaxis (microglia cells) • Stress effect on skin cells • Neuroinflammation |
| 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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