

Neobento Multifluidics DUPLEX LIGHT (Acro Certified)

Catalog No.: MFDW-1

MultiFluidics Line

Features	
Innervated, irrigated and compartmentalized organs-on-chip devices for 3D & 2D cell culture <ul style="list-style-type: none"> • Mainly focused on the creation of multi-organs-on-chip • Multiplexing of our technologies & 2D/3D multicompartment perfusion • LIGHT Version: 8 Chips & Data points per plate 	
Technical Specifications	
Surface Area:	<ul style="list-style-type: none"> • Well: 6000 × 5000 × 4550 μm (L × W × H), 29.8 mm² (Membrane: 12 μm thick, 400 nm pores) • Channel: 21000 × 4600 × 540 μm (L × W × H), 85.1 mm² (including bottom of reservoirs)
Volumes:	<ul style="list-style-type: none"> • Well: 142.1 μL • Channel: 145.3 μL (including reservoirs) • Reservoir: 49.7 μL (excluding channel)
Materials:	<ul style="list-style-type: none"> • Microfluidic chip (Above Membrane): PolyDiMethylSiloxane biocompatible and low compound absorbing (refractive index: 1.4) • Microfluidic chip (Below Membrane): Polystyrene (refractive index: 1.59) • Membrane: Polyethylene Terephthalate (PET)
Formats:	<ul style="list-style-type: none"> • Microfluidic chip: 3 × 1 wells • QuarterBentos: 4 chips (52,6 × 34,6 × 6,2 mm) • NeoBento: SLAS standard 96-well plate (127,8 × 85,5 × 17,1 mm)
Functions and Readouts	
Capabilities:	<ul style="list-style-type: none"> • Barriers
Applications:	<ul style="list-style-type: none"> • Blood brain barrier • Multiple sclerosis • Inflammatory response
Readouts:	<ul style="list-style-type: none"> • Immunofluorescence • Live Dead Assays • Live Staining • Liquid chromatography • Mass Spectroscopy • Lysis cell/supernatant analysis • ELISA • Calcium Imaging



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