

*Expose only the
cell you want*

A REVOLUTIONARY TOOL IN THE SINGLE CELL WORLD

After decades of various lab-on-a-chip solutions, it is time to introduce the BioPen[®], a next generation microfluidic device for advancing new scientific discoveries.

The BioPen[®] is a unique lab-on-tip system enabling 4 different solutions to be delivered to individual live cells with sub-second solution exchange times, without affecting the surrounding environment. The BioPen[®] is used at several top research institutes in the USA as well as in Europe, with diverse applications within cultured cell-line, neurons, muscle fibers, and brain slices. The BioPen[®] has also been utilized for lipid bilayer printing as well as over-printing onto bio-polymer.

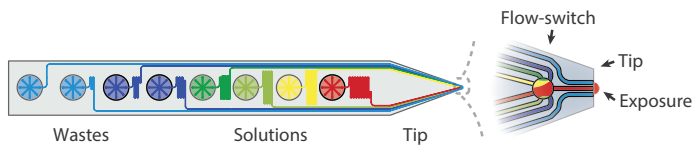
Contact us to discover more about the BioPen[®].

APPLICATIONS

- ✓ ENZYMOLOGY
- ✓ ELECTROPHYSIOLOGY
- ✓ PHARMACOLOGY
- ✓ TISSUE PHYSIOLOGY
- ✓ DRUG DISCOVERY
- ✓ BIOPRINTING
- ✓ AND MORE...



Changing the world one cell at the time



- ✓ INTERROGATE SINGLE OR A FEW CELLS
- ✓ LOW COMPOUND CONSUMPTION
- ✓ RAPID FOUR SOLUTION SWITCHING
- ✓ NO CLEANING
- ✓ NO CONTAMINATION
- ✓ NO GLASS OR TIP BREAKAGES
- ✓ MAXIMISE CELL CULTURE USAGE

TECHNICAL SPECIFICATIONS

BioPen® Tip

Characteristic	Performance
Exposure	
Length	20-160 µm
Width	90-110 µm
# of solutions	4
Exchange time	Sub-second
Reservoir volume	35 µL

Characteristic	Performance
Flow rates	
Stimulation	7-25 nL/s
Stand-by	1-5 nL/s
Run time	
Stimulation	up to 3h
Stand-by	up to 9h

Characteristic	Performance
Pressure range	0...450 mbar
Vacuum range	-300...0 mbar
Interface	USB 2.0
Power	100-220V
Operating system	Windows 10
Technology	Synchronization

BioPen® Holder

- Quick clamping of tip
- Individual pneumatic connections
- Compatible with common manipulators

Software

- Basic operation
- Macros for complex protocols
- Touch screen optimized
- External control with 5V TTL



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