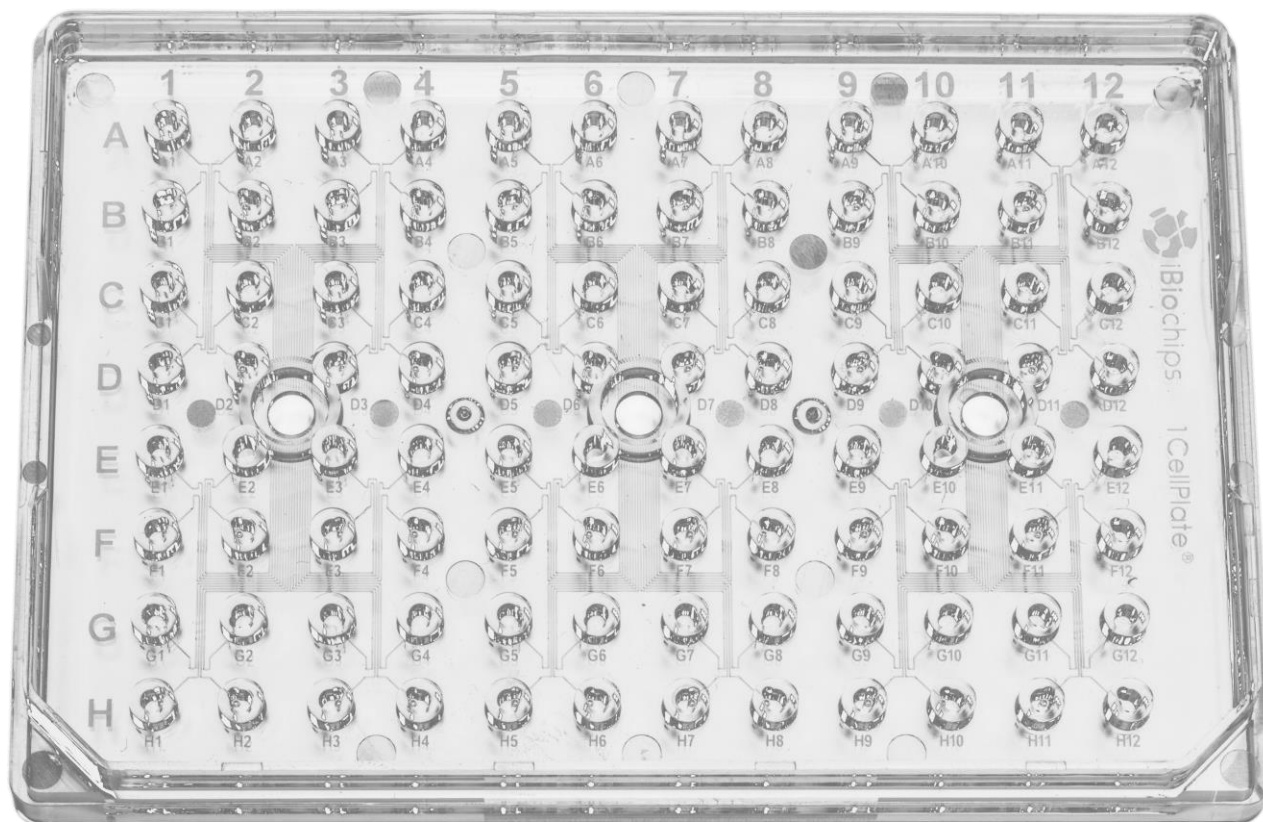


1CellPlate®-96Well Low Evaporation

Ultra-Low Volume 96-Well Microfluidic Microplate

1CellPlate®-96Well Low Evaporation combines ultra-small 96 wells with microfluidic channels to meet various experiments with low reaction volume and low evaporation requirements.

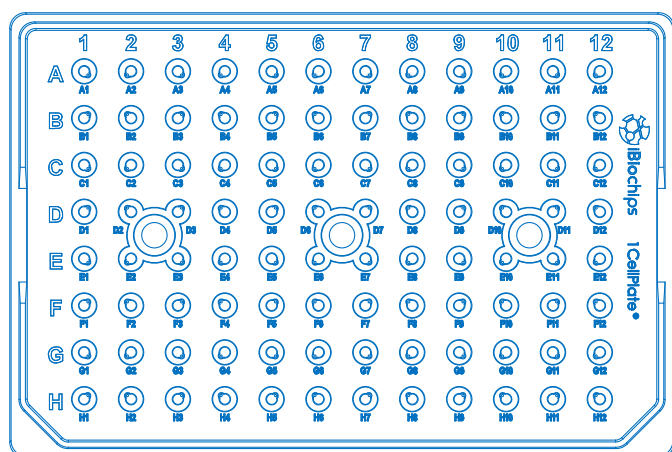


Cat. No. P4-SCPA-5PK

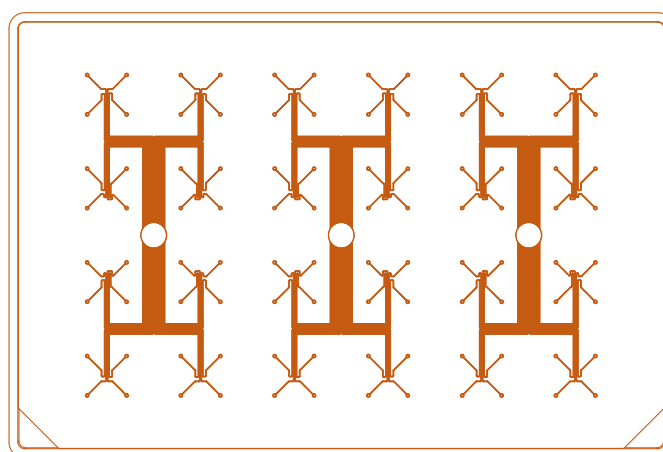
Performance Highlights	1CellPlate®-96Well Low Evaporation	96-Well Low Volume Plate
Ultra-Low Working Volume	YES, 4-8 μ L/well	NO, 20-40 μ L/well
Easy Single-Cell Isolation	YES, patented microfluidic aliquoting	NO, labor-intensive limiting dilution
Low Single-Cell Isolation Pressure	YES, less than 1 psi	NO, 20-70 psi in a traditional cell sorter
Rapid Single-Cell Identification	YES, in single field-of-view microscope image	NO, require microscopy image stitching
Good Evaporation Prevention	YES, by using provided Adhesive Film	YES, by using microplate sealing film

Innovative Design of 1CellPlate®-96Well Low Evaporation

Top view contains a well array

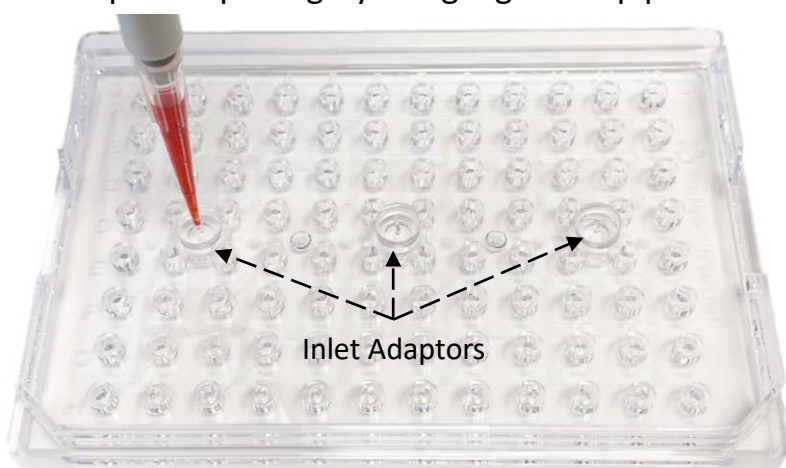


Back view contains microfluidic channels

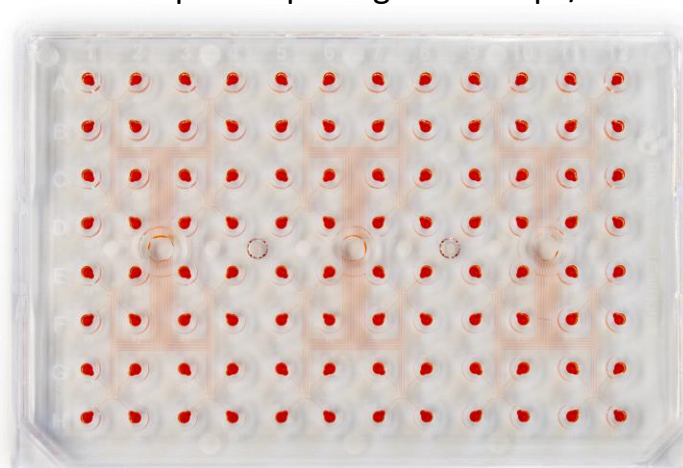


Easy Microliter Liquid Aliquoting into 96 Small Wells

Liquid aliquoting by using a general pipette



Finish liquid aliquoting with 5.6 μ L/well



Specifications

Format

Description

Standard 96-well plate format

Material

Polystyrene & polypropylene

Sterility

Sterile

No. of Wells

96 wells (12 x 8 array)

Well Bottom

Flat polystyrene

Well Surface Treatment

Tissue culture-treated

Well Volume

14 μ L

Working Volume

4-8 μ L

Single-Cell Yield

~ 30 per device (~10 x 3)

Compatible Cell Size

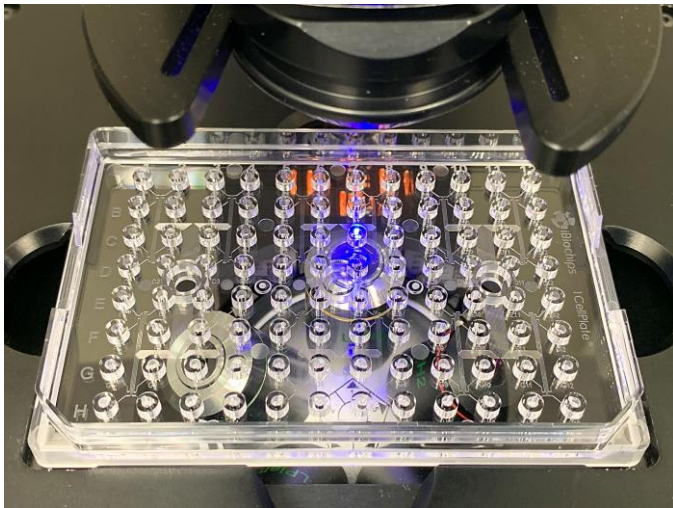
\leq 80 μ m (diameter)

Cell Types Can Be Isolated

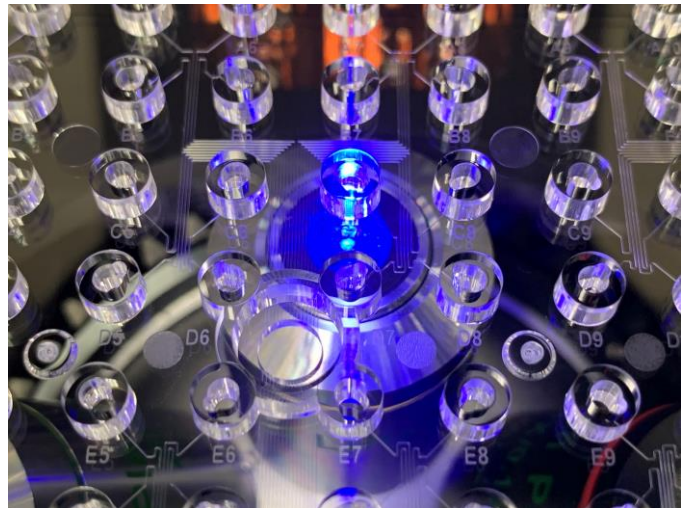
3 cell types per device

Compatible with Standard Microscope Imaging

In a microscope with GFP channel

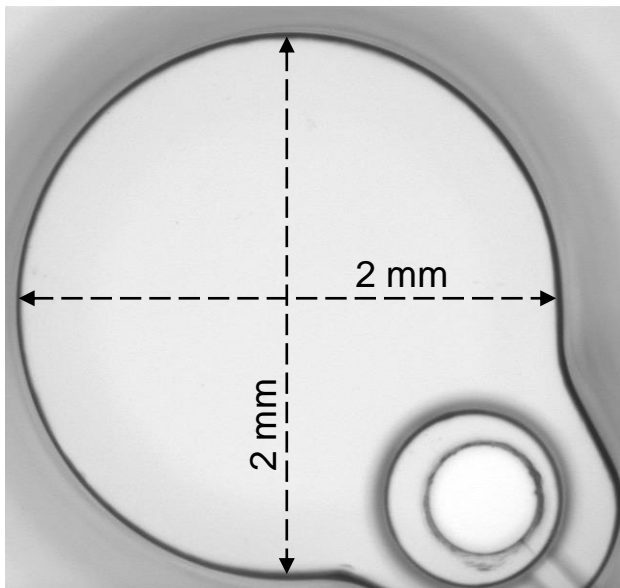


Focusing on the well #C7

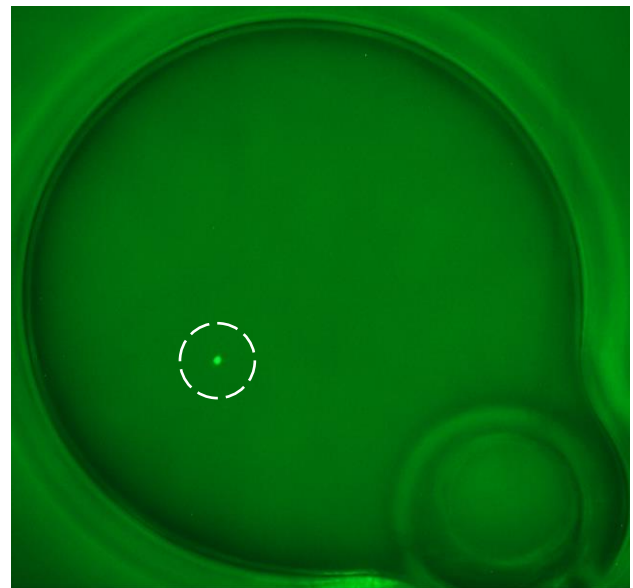


Convenient Single-Cell Identification in Single Field-of-View

Single field-of-view microscope image



Single-cell identification



Features

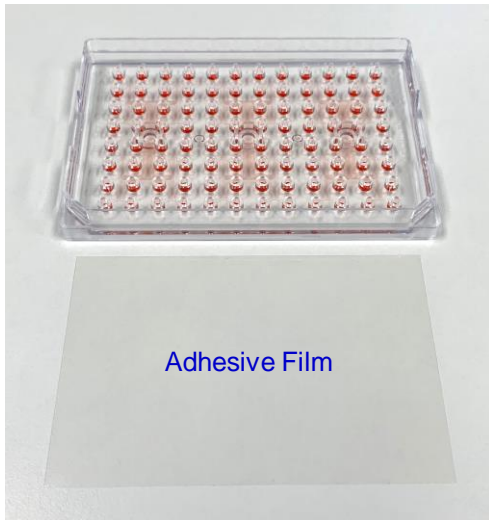
- ✓ Ultra-low working volume: 4-8 μL /well
- ✓ Compatible with cell diameter $\leq 80 \mu\text{m}$
- ✓ Compatible with cell numbers ≤ 100 cells
- ✓ Easy single-cell identification in 2 mm well
- ✓ Easy operation by pipette in a sterile hood
- ✓ Gentle microflow keeps high single-cell viability
- ✓ No liquid backflow and cross-talk between wells
- ✓ No special equipment or operation skills are required

Applications

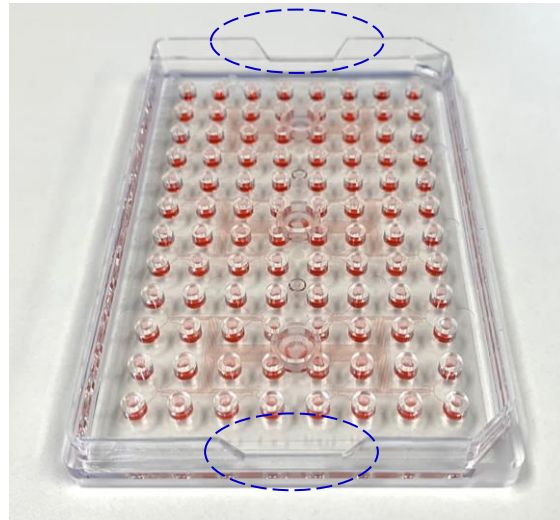
- ✓ Single-Cell Isolation
- ✓ Single-Cell Incubation
- ✓ Single-Cell Multiomics
- ✓ Single-Cell Metabolomics
- ✓ Single-Cell Cytokine Detection
- ✓ Single-Cell Lysis, PCR & Sequencing

Convenient Adhesive Film Placing through Notched Sides

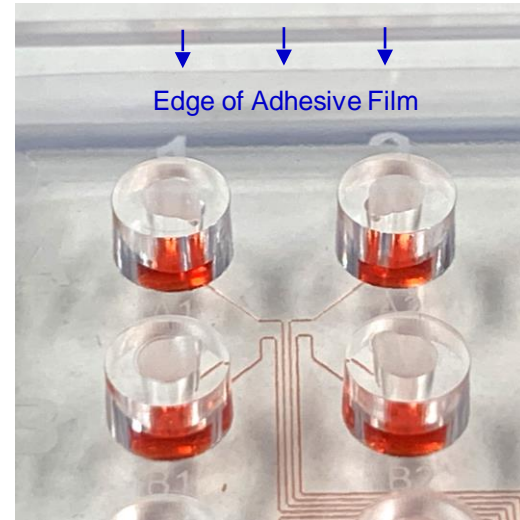
Before sealing



Place film through two notched sides



After sealing

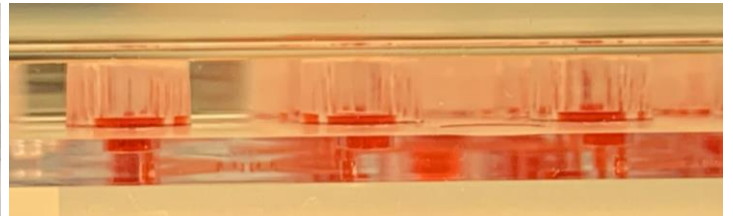
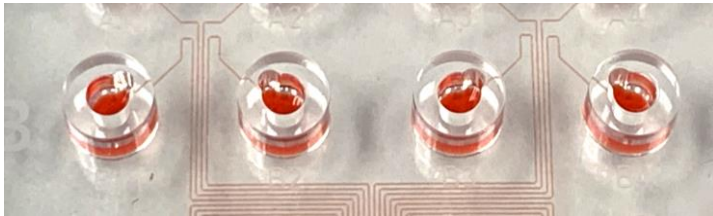


Excellent Evaporation Prevention during Assay Incubation

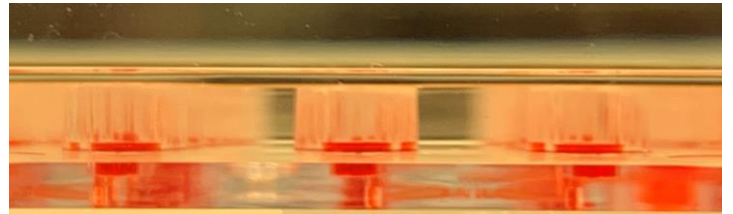
Top View

Side View

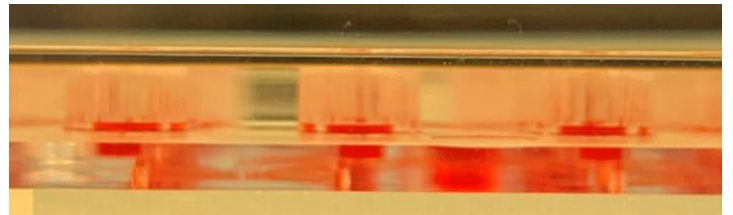
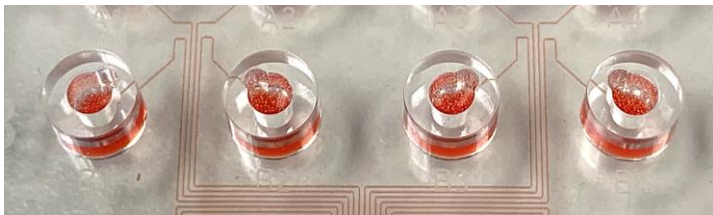
Day 0



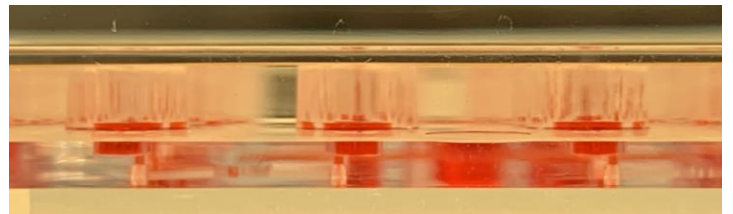
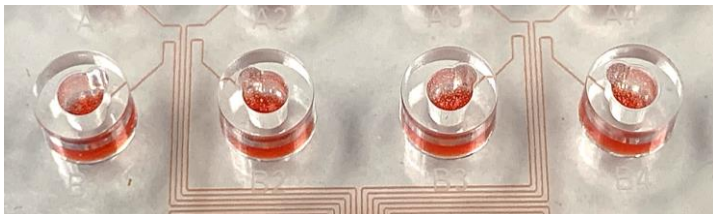
Day 1



Day 2



Day 7



Day 14
after
sealing

