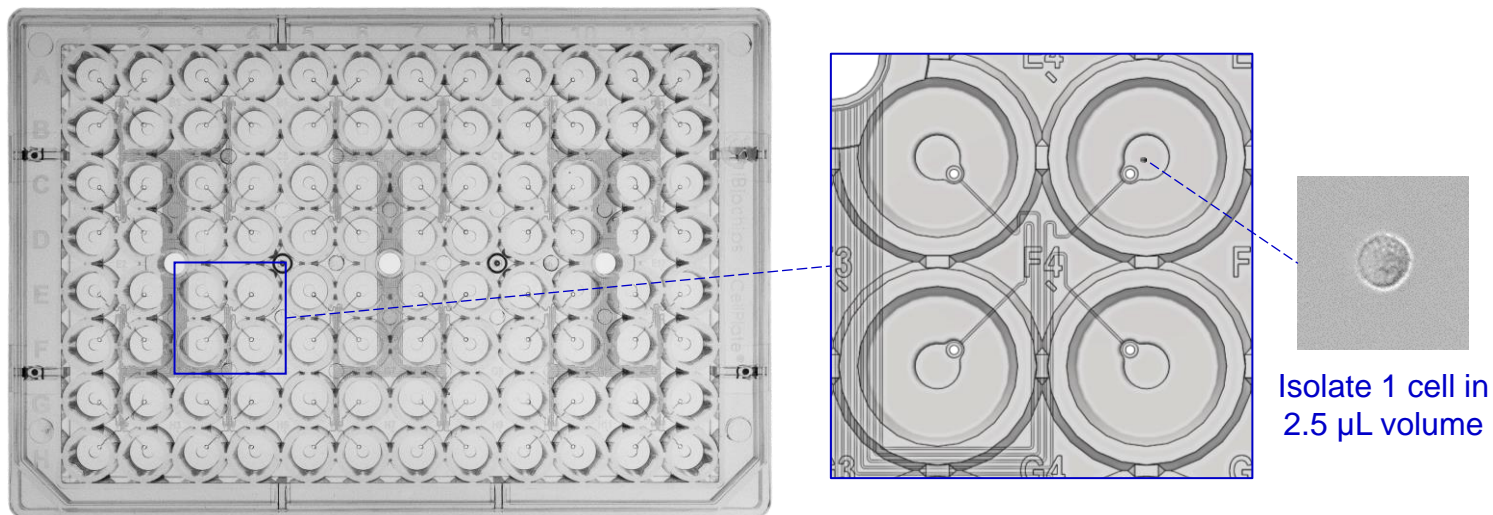


1CellPlate[®]-96well Single-Cell Isolation Plate has a unique double-well microfluidic design that meets various needs of single-cell-based clonal and genetic analyses.



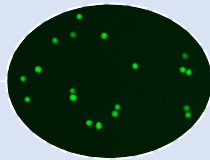
Cat. No. P1-SCP-5PK

Specifications	Description
Format	Standard 96-well plate format
Material	Polystyrene & polypropylene
Sterility	Sterile
No. of Wells	96 wells (12 x 8 array)
Well Volume	166 µL (Inlet Port), 2.7 µL (Inner Well), 352 µL (Outer Well)
Well Bottom	Flat polystyrene
Surface Treatment	Tissue culture-treated
Single-Cell Yield	~ 30 per device (~10 x 3)
Single-Cell Volume	2.5 µL (isolation to transfer), 200 µL (culture to clone)
Compatible Cell Size	≤ 80 µm (diameter)
Cell Types Can Be Isolated	3 cell types per device

Initial Cell Suspension

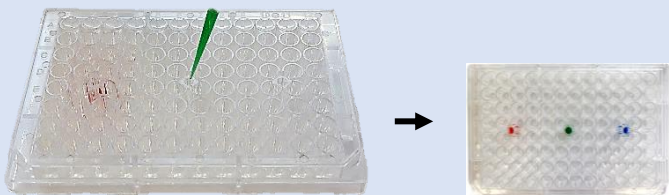


250-350 cells per mL

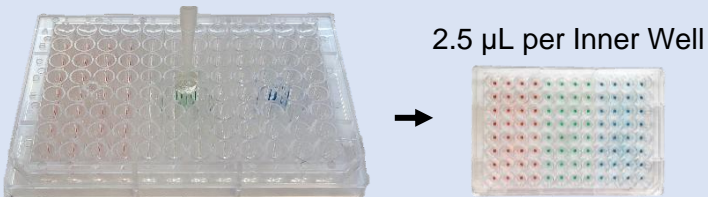


Single-Cell Isolation by 1CellPlate®-96well

1. Add initial cell suspension into each Inlet Port



2. Isolate ~ 30 single cells in 30 seconds



2.5 μ L per Inner Well

3. Identify isolated single cells in Inner Wells

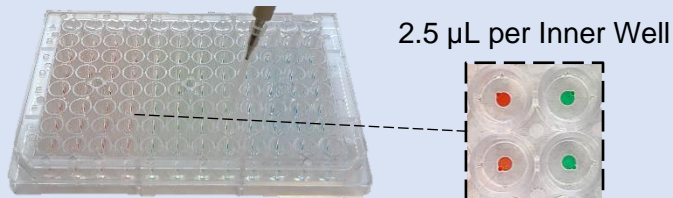


BF or FL



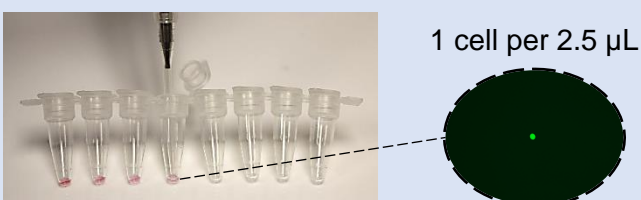
Single-Cell PCR: 1 Cell in 1 PCR Tube

1. Retrieve desired single cells from Inner Wells



2.5 μ L per Inner Well

2. Transfer one cell into one PCR tube



1 cell per 2.5 μ L

Applications

- ✓ Single Cell Isolation
- ✓ Cell Line Development
- ✓ Stem Cell Isolation
- ✓ CRISPR Cell Line Development
- ✓ Single-Cell Lysis
- ✓ Single-Cell Multiomics
- ✓ Single-Cell PCR & Sequencing

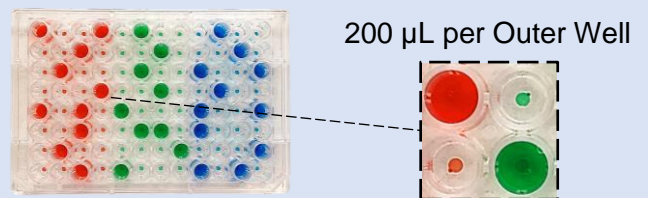
Features

- ✓ Easy operation by regular pipette, no special instrument and skills required
- ✓ Compatible with most cells sizes & types
- ✓ Compatible with automated imaging
- ✓ Isolate 3 cell types by using one 1CellPlate®-96well
- ✓ Small Inner Wells allow precise identification of isolated single cells without cell labeling procedure
- ✓ Big Outer Wells allow long-term clonal cell culture
- ✓ Gentle and uniform flow allowing cells to keep very high viability and integrity
- ✓ Small single-cell isolation volume to meet various single-cell analysis needs
- ✓ No liquid backflow and cross-talk between wells



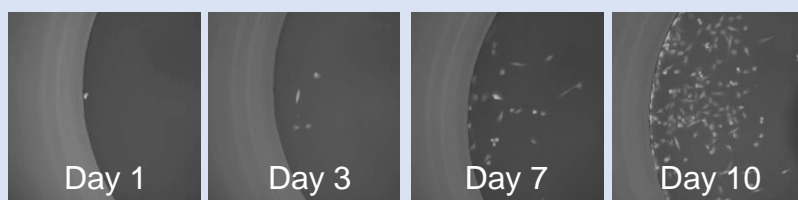
Single-Cell Cloning: 1 Cell in 1 Culture Well

1. Add medium into Outer Wells having single cells



200 μ L per Outer Well

2. Culture for several days to generate clonal cells



Day 1

Day 3

Day 7

Day 10