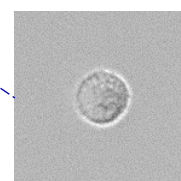
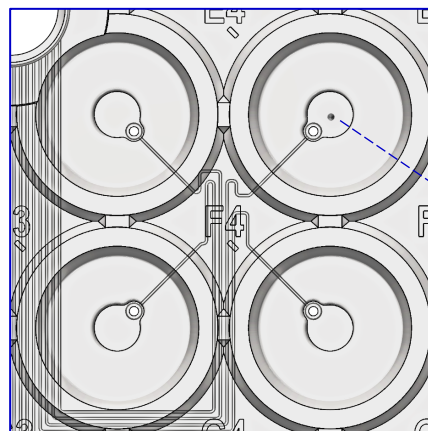
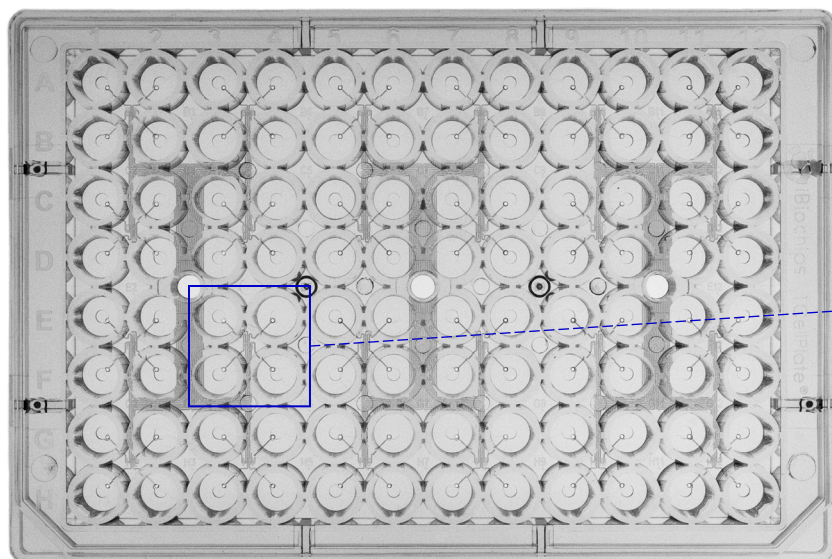


1CellPlate®-96well Ultra-Low Volume 96-Well-in-Well Microfluidic Microplate combines unique well-in-well structures with microfluidic channels to meet various single-cell analysis needs including clonal and genetic analyses.

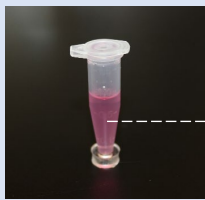


Isolate 1 cell in
2.5 μ L volume

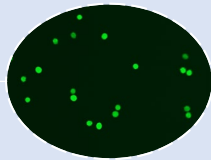
Cat. No. P1-SCP-5PK

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 μ L (Inlet Port), 2.7 μ L (Inner Well), 350 μ L (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 μ L (isolation to transfer), 200 μ L (culture to clone)
Compatible Cell Size	\leq 80 μ m (diameter)
Cell Types Can Be Isolated	3 cell types per device

Initial Cell Suspension

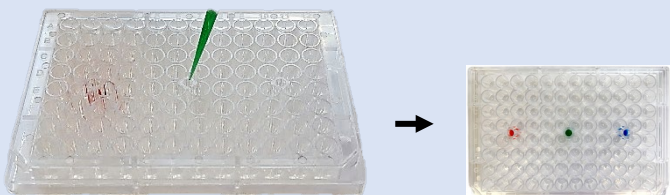


250-350 cells per mL

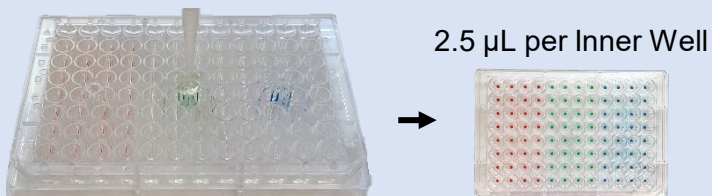


Single-Cell Isolation by 1CellPlate®-96well

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

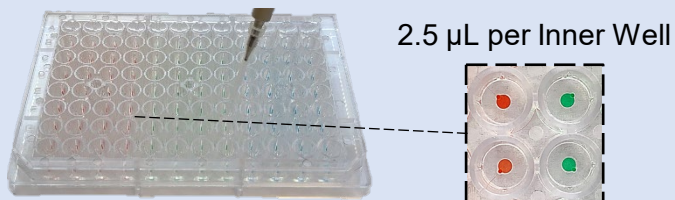


BF or FL



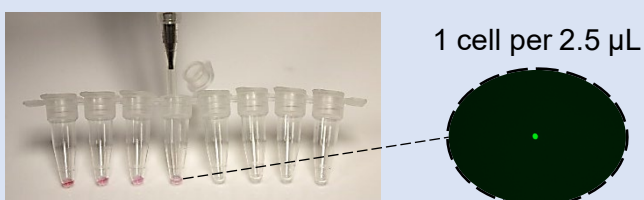
Single-Cell PCR: 1 Cell in 1 PCR Tube

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

Features

- ✓ Compatible with cell diameter $\leq 80 \mu\text{m}$
- ✓ Compatible with cell numbers ≤ 100 cells
- ✓ Compatible with cell types 1-3 types/device
- ✓ Small single-cell isolation well: 2 mm diameter
- ✓ Large single-cell culture well: 6.5 mm diameter
- ✓ Ultra-low single-cell isolation volume: 2.5 $\mu\text{L}/\text{cell}$
- ✓ Gentle microflow keeps high single-cell viability
- ✓ No liquid backflow and cross-talk between wells
- ✓ Easy operation by regular pipette in a sterile hood
- ✓ No special equipment or operation skills are required

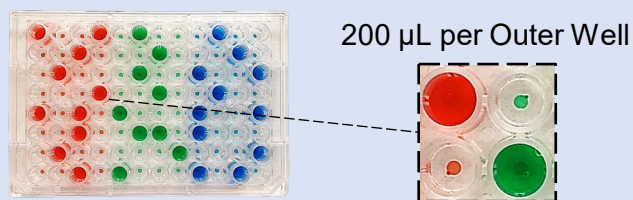
Applications

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



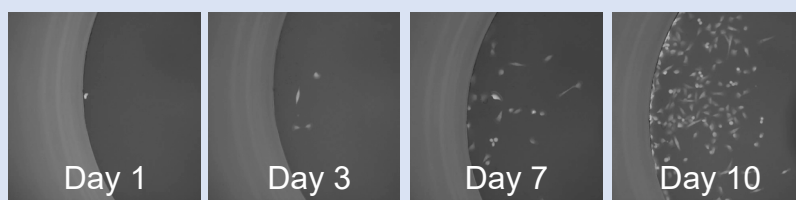
Single-Cell Cloning: 1 Cell in 1 Culture Well

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