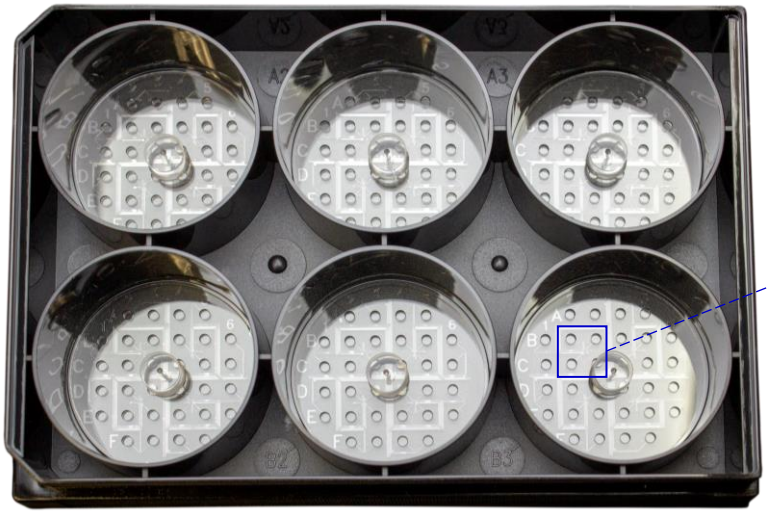
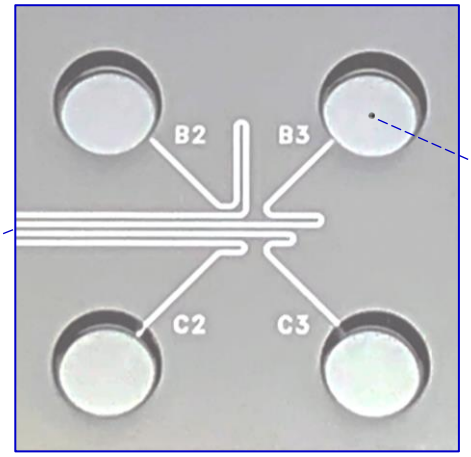
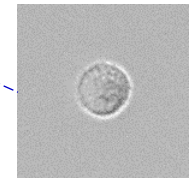
1CellPlate®-Glass Bottom

Ultra-Low Volume Single-Cell Isolation & Imaging Microplate

1CellPlate®-Glass Bottom Ultra-Low Volume Single-Cell Isolation & Imaging Microplate provides an easy and rapid method to isolate single cells into 2 µL volumes for high-resolution imaging at #1.5 coverslip such as confocal imaging.







Isolate 1 cell
in 2 µL volume

Cat. No. P5-SGP-5PK

Specifications	Description
Format	Standard 6-well plate format
Material	Polystyrene, glass, PDMS
Sterility	Sterile
No. of Wells	192 wells (32 x 6)
Well Volume	2.5 µL per well
Well Bottom	#1.5H coverslip glass (~0.17 mm thickness)
Single-Cell Yield	~ 60 per device (~ 10 x 6)
Single-Cell Isolation Volume	2 µL
Single-Cell Isolation Pressure	<1 psi (traditional cell sorters: 20-70 psi)
Compatible Cell Size	≤ 50 µm (diameter)
Cell Types Can Be Isolated	6 cell types per device

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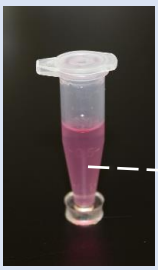
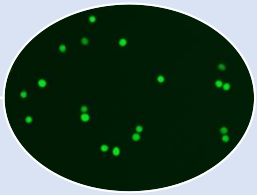
Initial Cell Suspension

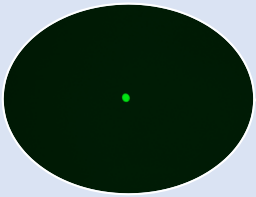


250-500 cells per mL



Final Cell Suspension: 1 Cell in 1 Tube

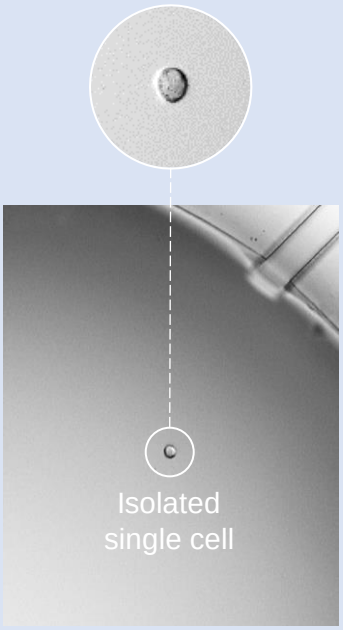
1 cell per 2 µL



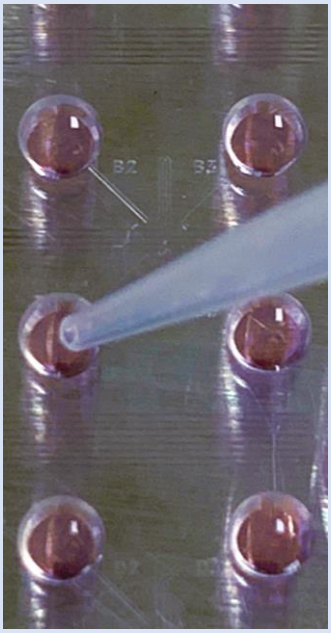
Single-Cell Isolation by 1CellPlate®-mini

1. Isolate ~ 60 single cells in one minute

2. Identify single cells in 1.8-mm diameter of wells by common microscope



3. Retrieve single cells in 2 µL of suspensions with a regular pipette



Features

- ✓ Compatible with cell diameter ≤50 µm
- ✓ Compatible with cell numbers ≤100 cells
- ✓ Compatible with cell types 1-6 types/device
- ✓ Easy single-cell identification in 1.8 mm well
- ✓ Ultra-low single-cell isolation volume: 2 µL/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
- ✓ #1.5H coverslip glass bottom for high-quality imaging
- ✓ No special equipment or operation skills are required

Applications

- ✓ Single-Cell Isolation
- ✓ Single-Cell Multiomics
- ✓ Single-Cell PCR & Sequencing
- ✓ Single-Cell Imaging with DIC, TIRF, FRET, confocal microscopy, and widefield fluorescence

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