

#### Protocol for

## 1CellPlate<sup>®</sup>-Glass Bottom

#### Innovative Biochips LLC

202 Industrial Blvd, Suite 703 Sugar Land, TX 77478, USA +1 (832)538-1925 info@ibiochips.com https://ibiochips.com/



## Sinale-Cell Isolation

# Removal of Inlet Adaptor

## Single-Cell Imaging

#### Single-Cell Retrieval







Prepare cell suspension with a Load 65 µL of suspension into After the solution flows out, Check all the wells containing Alternatively, retrieve the target Transfer the 2 µL of single-cell 16-32 cells.

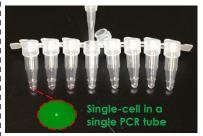
concentration of 250-500 · the 1CellPlate-Glass Bottom. · keep holding the pipette to · single cells with a yield of ~60. · single cell by setting a pipette · suspension cells/mL into a PBS buffer or cell Vertically insert the pipette tip prevent backflow. Then tilt the The #1.5H coverslip glass to 2 µL and pipetting each well container for your downstream ! culture medium. Fully suspend ! into the Inlet Adaptor. Press the ! tip to detach the Inlet ! bottom (~0.17 mm thickness) is ! up and down 3-5 times. After ! analyses, e.g. an 8-well PCR ! the cells and pipette up 65 µL pipette plunger down to its first Adaptor from the 1CellPlate- compatible with DIC, TIRF, FRET, the target cell is fully tube strip for single-cell lysis, of cell suspension containing ! stop. Hold it for about 10 ! Glass Bottom. Discard the ! confocal microscopy, and ! suspended, rapidly retrieve the ! PCR, and sequencing. i seconds. DO NOT release.

pipette tip and Inlet Adaptor. i widefield fluorescence.

i suspension from the device.

## Single-Cell Transfer





into another

# **Applications**

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

