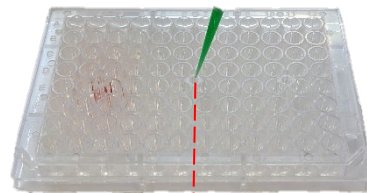




## Protocol for 1CellPlate®-96well

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### Bulk Cells Adding

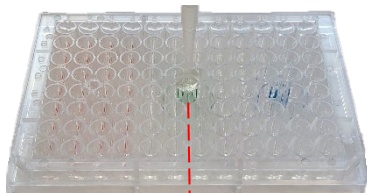


Enlarge  
image



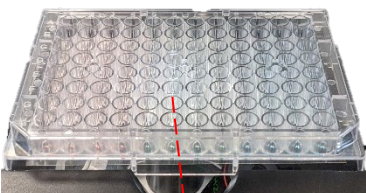
Find the three Inlet Ports on 1CellPlate. Prepare >300  $\mu\text{L}$  of cell suspension (250-350 cells/mL). Fully suspend the cells and transfer 100  $\mu\text{L}$  of cell suspension (containing 25-35 cells) into each Inlet Port.

### Single-Cell Isolation



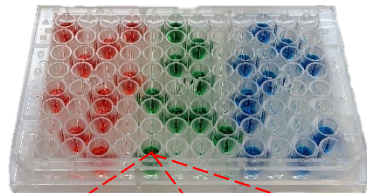
Attach the provided pipette tip with Inlet Adaptor to a 20-200  $\mu\text{L}$  pipette and set it to 100  $\mu\text{L}$ . Put the Inlet Adaptor on top of an Inlet Port. Press the pipette to its first stop and hold the pressure for 10 seconds. Allow medium to complete flowing out.

### Single-Cell Identification



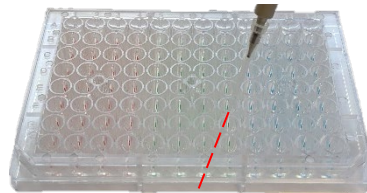
Check all the wells containing single cells with a microscope. Bright-field or fluorescence with a 10x objective is typically recommended. Write down well labels with target single cells. The total yield should be ~30.

### Single-Cell Cloning



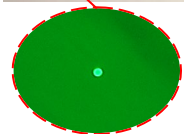
After single-cell identification, add 200  $\mu\text{L}$  of the cell culture medium into each Outlet Well containing the target single cell. Culture it for a few days to generate clonal cells.

### Single-Cell Retrieval



Alternatively, after single-cell identification, retrieve the target single cell by setting a pipette to 2.5  $\mu\text{L}$  and pipetting each well up and down 3-5 times. After the target single cell is fully suspended, rapidly retrieve the suspension from the 1CellPlate.

### Single-Cell Transfer



Single-cell in a  
single PCR tube

After single-cell retrieval, transfer the 2.5  $\mu\text{L}$  of single-cell suspension into another container for your downstream analyses, e.g. an 8-well PCR tube strip for single-cell lysis and PCR.

### Applications

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

