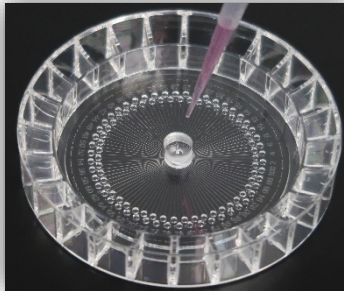


## Quick-Start Protocol of Smart Aliquoter

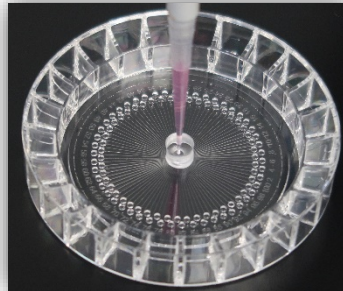
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### Cell Preparation



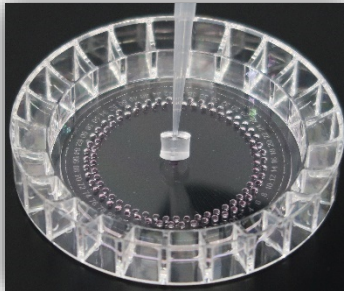
Prepare cell suspension with concentration of 0.25-0.5 cell/ $\mu$ L. Uniformly suspend cells within media or PBS before injecting into the Smart Aliquoter.

### Single-Cell Isolation



Inject 100-200  $\mu$ L of cell suspension containing about 50 cells into the center cap by pipette. About 30 single cells are isolated in one Smart Aliquoter.

### Removal of Cap



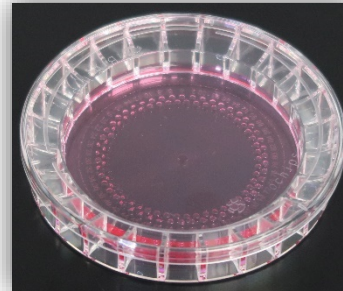
After isolation, use one hand to hold the device and the other hand to tilt the pipette. The center cap is easily detached from the Smart Aliquoter.

### Single-Cell Identification



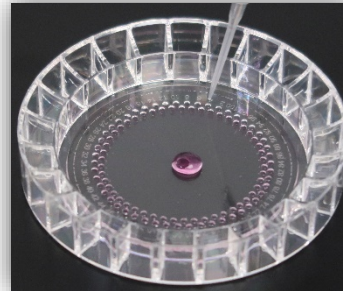
Put 50-100  $\mu$ L cell-free media or PBS onto center hole of the Smart Aliquoter and identify wells only having single cells under common inverted microscope.

### Single-Cell Cloning



Add 10 mL cell media to cover whole bottom surface. After 1-2 weeks of cell culture, transfer clones into common well plates for expanding culture.

### Single-Cell Transfer



Alternatively, single cells can be resuspended and then transferred as 1-2  $\mu$ L of single-cell suspensions into PCR tubes by pipette with 0.1-2.5  $\mu$ L tip.

## Applications

- Single-cell isolation
- Single-cell cloning
- Single-cell PCR
- Rare cell isolation