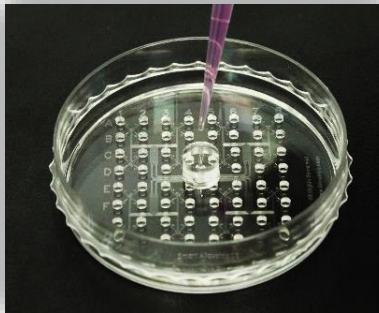


## Quick-Start Protocol of Smart Aliquoter CE

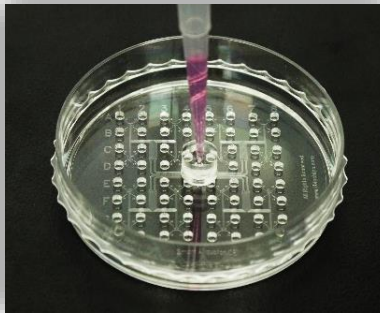
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### Cell Preparation



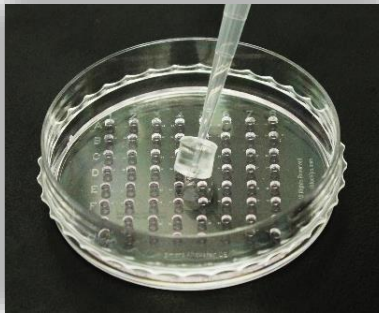
Prepare a cell suspension with a concentration of  $\sim 0.3$  cell/ $\mu\text{L}$ . Uniformly suspend cells within media or PBS before injecting into the Smart Aliquoter CE.

### Single-Cell Isolation



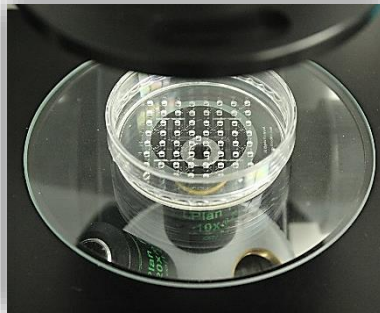
Vertically inject 100  $\mu\text{L}$  of the cell suspension containing  $\sim 30$  cells into the center cap by pipette. About 20 single cells are isolated with one Smart Aliquoter CE.

### Removal of Cap



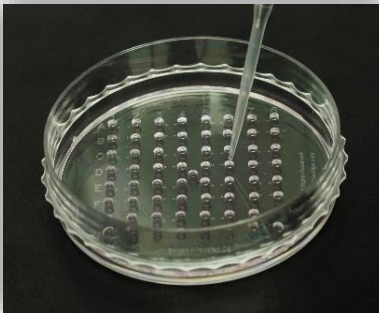
After injection, hold the device and tilt the pipette to remove the cap, without releasing plunger button. The center cap is easily detached from the Smart Aliquoter CE.

### Single-Cell Identification



Identify wells containing the single cells under a common inverted microscope; note the location of the wells by the corresponding micro numbers located next to the channels.

### Single-Cell Transfer



Use a pipette to resuspend single cells within the wells and transfer them as single-cell suspensions into PCR tubes for genetic analysis or well plate for clonal analysis.

### Single-Cell Cloning



Alternatively, add 4 mL of cell media to culture 1-2 weeks, remove cell media, add trypsin only in noted wells and finally transfer clones into common well plates to expand culture.

### Applications

- Single-Cell Isolation
- Single-Cell Cloning
- Single-Cell PCR
- Rare Cell Isolation