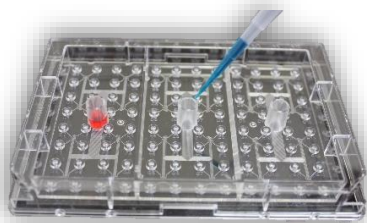
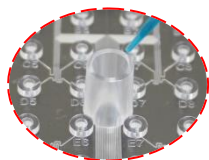


Full Protocol of 1CellPlate for Single-Cell Cloning

Whole Image

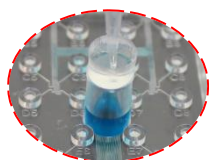
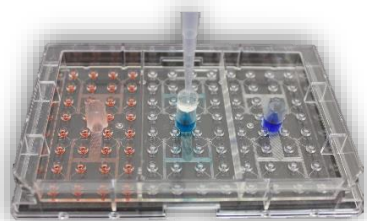


Enlarge Image



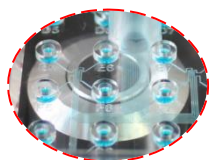
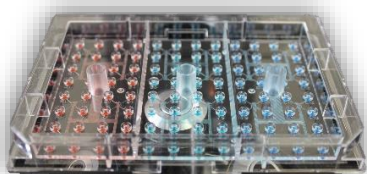
Step 1: Cell Suspension Preparation

1. Harvest adherent cells and make them into cell suspension.
2. Transfer 2 μL of cell suspension to a Petri Dish.
3. Identify the cell suspension and roughly estimate cell numbers under the microscope.
4. The ideal number of cells is 25-35. If too much/little, dilute/enrich it to match the number.
5. Add 200 μL of culture medium to the cell suspension and pipette cells to be fully suspended.
6. Transfer 200 μL of cell suspension into one Inlet Port of 1CellPlate.



Step 2: Single-Cell Isolation

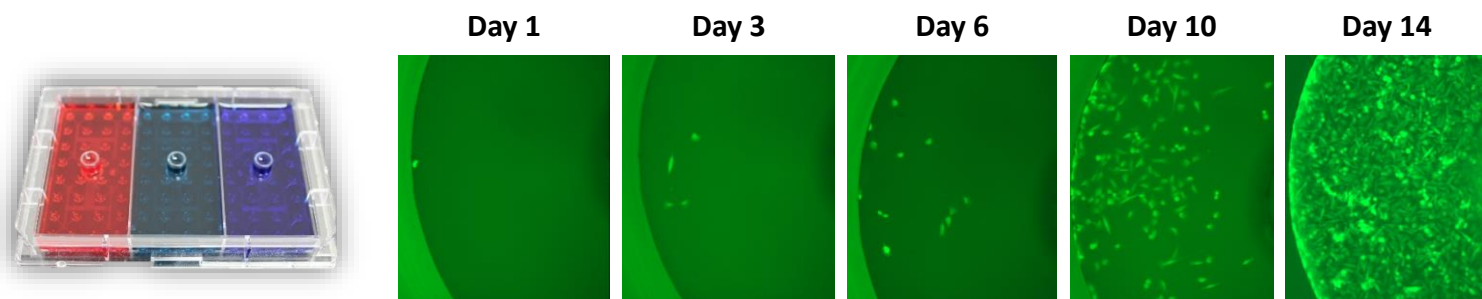
1. Put a pipette tip containing an Inlet Adaptor on the top of Inlet Port.
2. Press pipette plunger down (200 μL +P) to aliquot cell suspension into the 32 Outlet Wells.
3. Add 200 μL of culture medium into the Inlet Port to prevent back flow.



Step 3: Single-Cell Identification

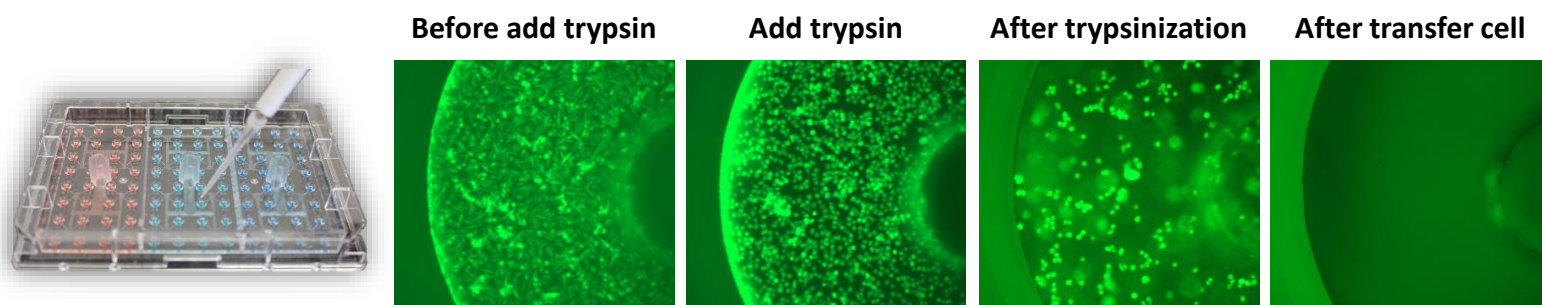
1. Put the 1CellPlate under microscope with 10x objective (bright field or fluorescence).
2. Identify and note all Outlet Wells containing only single cells.

Full Protocol of 1CellPlate for Single-Cell Cloning



Step 4: Single-Cell Cloning

1. Add 10 mL of cell culture medium into each large Chamber.
2. Culture the isolated single cells for ~2 weeks to generate clonal cells.



Step 5: Clonal Cells Harvesting

1. Remove cell culture medium from the Chamber.
2. Wash residual medium 2-3 times by PBS and then remove PBS from the Chamber.
3. Carefully remove PBS from the Outlet Wells containing desired clonal cells.
4. Add about 2 μ l of trypsin into the Outlet Wells containing desired clonal cells.
5. Put the 1CellPlate into the cell culture hood for 3-5 minutes to dissociate adherent cells from the bottom.
6. Use pipette to harvest the clonal cells from the Outlet Wells of 1CellPlate.