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In 1 collection

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Protocol status: Working

We use this protocol and it's working

Created: February 18, 2019

Last Modified: February 27, 2019

Protocol Integer ID: 20473

Guidelines

This protocols is part of the **Screening Edited iPSC Clones collection**.





Materials

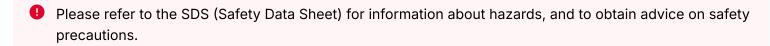
STEP MATERIALS

⊠ Accutase[™] Cell Dissociation Reagent **Gibco - Thermo Fisher Scientific Catalog** #A1110501

Protocol materials

- **X** Accutase™ Cell Dissociation Reagent Gibco Thermo Fisher Scientific Catalog #A1110501
- **X** Accutase™ Cell Dissociation Reagent Gibco Thermo Fisher Scientific Catalog #A1110501

Safety warnings





- 1 Aspirate media
- 2 Gently wash cells with 1x PBS.

Note

Use 2-3 mL per well in 6 well plate.

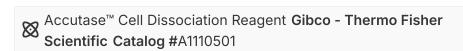
3 Add Accutase (Gibco A11105-01) directly to the cells and incubate at 37 °C for 3-4 minutes. (5) 00:03:00

Note

Individual donor cell lines exhibit variable sensitivity to accutase-mediated dissociation. Thus, monitor cells closely to determine when single cell dissociation is achieved.

Note

For a 6 well plate, add 0.75-1 mL per well. For a 10cm² dish, add 3 mL.



- 4 Tap dish to aid in dislocation of cells.
- 5 Add DMEM/F12 directly to cells.



Note

- For a 6 well plate, add 🚨 2 mL 🚨 4 mL per well.
- For a 10cm² dish, add ▲ 9 mL
- If cells remain attached, use a cell scraper to gently dislodge cells (apply gentle pressure and use 1-2 passes to remove cells)
- 6 Collect cells in conical tube (15mL/50mL depending on volume).
- 7 Add <u>A 2 mL</u> <u>A 5 mL</u> DMEM/F12 to dish to remove all cells from the dish and add to conical tube.
- 8 Centrifuge cells at 750 rpm for 00:03:00 at room temperature.
- 9 Carefully aspirate supernatant.

Note

To avoid aspirating cell pellet, it is OK to leave a small amount of media (0.5-1mL).

- 10 Resuspend cell pellet with mTesR1 (No Rock Inhibitor).
 - Use volume appropriate for freezing.
 - Assume 1 mL per cryovial total and add ½ total volume of mTesR1.
 - Pipet cells 1-2 times only to preserve cell clumps.

Note

Example: to freeze 10 tubes, you will need 10 mL total and will add 5 mL mTesR1 to cell pellet (and 5 mL of 2x Freezing Media below).



- 11 Add an equal volume of cold 2x Freezing Media (20% DMSO, FBS). Pipet cells 1 time only to preserve cell clumps.
- 12 Transfer cell suspension to pre-labeled cryovials (1 mL per cryovial).
 - Ensure that cryovials are labeled with the following
 - -Cell Type
 - -Line Name
 - -Passage #
 - -Date
 - -Your Name
- 13 Freeze vials at 4 -80 °C in foam racks for 48-72 hours. 48:00:00
- 14 Transfer vials to liquid nitrogen for long-term storage.