

Feb 27, 2019 Working

Serial Dilution of Nucleofected iPSC Pools

In 1 collection

Celeste Karch¹, Rita Martinez¹, Jacob Marsh¹

¹Washington University in St Louis

dx.doi.org/10.17504/protocols.io.x76frre

Celeste Karch

Neurodegeneration Method Development Community

 $\label{thm:comport} \textbf{Tech. support email:} \textbf{ndcn-help@chanzuckerberg.com}$

Washington University in St Louis



Comprehensive Genomic Editing and Screening Protocol Updated 02142019.docx

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

GUIDELINES

This protocol is part of the Genomic Editing: iPSC collection.

SAFETY WARNINGS

Please refer to the SDS (Safety Data Sheet) for information about hazards, and to obtain advice on safety precautions.

- Coat 3 wells of a 6 well plate with 🔲 1 ml Matrigel (supplemented with RGD fragment)
- 2 Aspirate media from cells in culture.
- 3 Wash with 11 ml 2 ml PBS per well.
- 4 Add 11 ml Accutase per well.
- 5 Incubate at § 37 °C for © 00:10:00 to achieve single cells.



02/27/2019

6	Collect cells in 5 mL DMEM/F12 and transfer to a 15mL conical tube.
7	Spin at 750-800 rpm for
8	Aspirate media.
9	Resuspend cells in mTesR1 supplemented with 5 uM Rock Inhibitor.
0	Plate several dilutions of cells over the three wells (typically 25 μ l, 50 μ l and 75 μ l in 2 mL of mTesR1).
1	Freeze down the remaining cells by adding an equal volume of 2x iPSC Freezing Media (20% DMSO in FBS).
2	Incubate at 8 37 °C overnight.

cells achieve single cells.

Change mTesR1 the following day.

13

Individual donor lines exhibit variable sensitivity to accutase-mediated dissociation. Monitor cells regularly to identify when

This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited