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Sep 10, 2020

Splitting p0 (6wp) to p1 (T75)

In 1 collection

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1 Works for me

dx.doi.org/10.17504/protocols.io.8gjhtun

Neurodegeneration Method Development Community Tech. support email: ndcn-help@chanzuckerberg.com



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ABSTRACT

Protocol includes splitting outgrowth of dural cell from a 6 well plate into one T75 flask for expansion.

DOI

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PROTOCOL CITATION

Andrea Argouarch 2020. Splitting p0 (6wp) to p1 (T75). **protocols.io** https://dx.doi.org/10.17504/protocols.io.8gjhtun

COLLECTIONS (i)

Dural Cell Isolation and Culturing - Collection

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CREATED

Oct 19, 2019

LAST MODIFIED

Sep 10, 2020

PROTOCOL INTEGER ID

28907

PARENT PROTOCOLS

Part of collection

Dural Cell Isolation and Culturing - Collection

STEPS MATERIALS

NAME	CATALOG #	VENDOR
Fetal Bovine Serum	97068-091	Vwr
Trypsin-EDTA (0.05%), phenol red	25300062	Thermo Fisher
Dumont #5 Forceps	11251-30	Fine Science Tools
GeneMate Cell Scrapers & Lifter	490000-254	Vwr
DPBS, no calcium, no magnesium	14190250	Thermo Fisher
DMEM, high glucose, pyruvate	11995073	Thermo Fisher

 NAME CATALOG # VENDOR

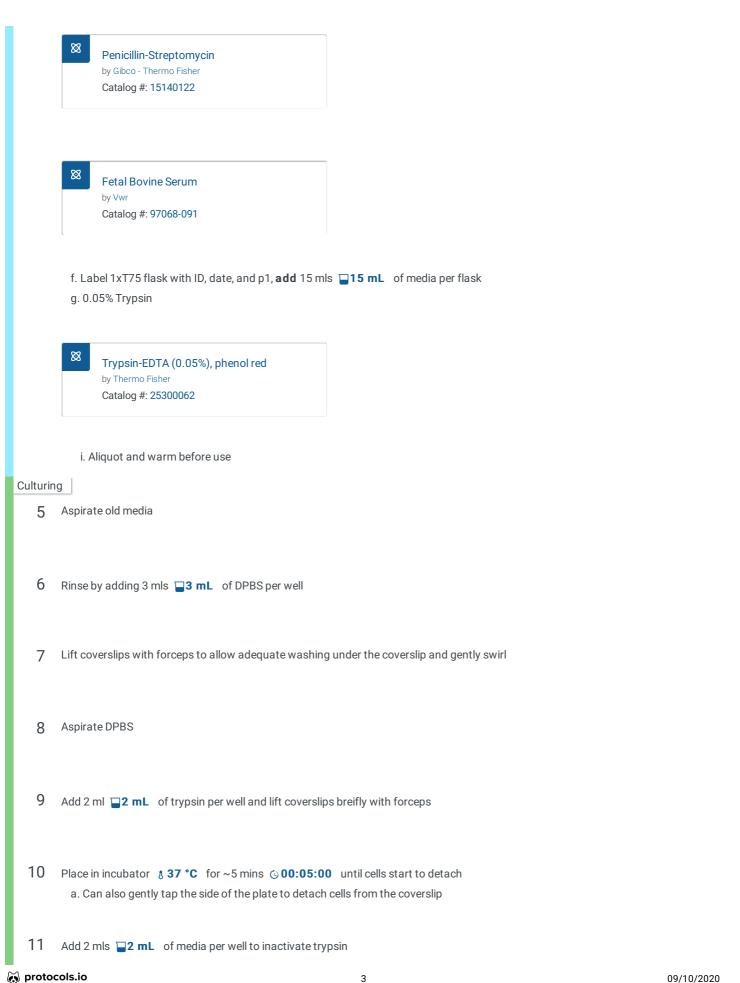
Penicillin-Streptomycin 15140122 Gibco - Thermo Fisher

Observations

- 1 After 3 weeks, split 6 wells of the 6 well plate (6wx6wp) into 1xT75 flask a. Keep 6wp as backup by re-feeding the entire plate after trypsinization.
- 2 Cells will grow on the plastic and maybe on the glass coverslip itself

Preparation

- 3 Turn off UV lights and clean hood with 70% ethanol
- 4 Clean items with 70% ethanol and bring into hood a. Autoclaved # 5 Forceps
 - Dumont #5 Forceps
 by Fine Science Tools
 Catalog #: 11251-30
 - $b.\,10\ cm\ dish\ for\ forceps,\ cell\ scraper,\ discarded\ coverslips,\ and\ discarded\ tissue$
 - c. Sterile cell scraper
 - GeneMate Cell Scrapers & Lifter
 by Vwr
 Catalog #: 490000-254
 - d. DPBS -/-
 - DPBS, no calcium, no magnesium
 by Thermo Fisher
 Catalog #: 14190250
 - e. Sterile Filtered Media with PenStrep
 - DMEM, high glucose, pyruvate
 by Thermo Fisher
 Catalog #: 11995073



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12	With forceps, flip over coverslip within each well a. Can remove tissue and place in 10 cm dish to discard
13	Use cell scraper to gently scrap off cells in each well attached to the coverslip
14	Discard each coverslip in the 10 cm dish
15	Use cell scraper to scrap off remaining cells (cells that are attached to bottom of plate)
16	Check under microscope and mark areas with cells still attached with a pen
17	Re-scrape cell gently if needed
18	Collect cell suspension in a 50 ml conical
19	Rinse wells with additional media ~6mls □6 mL to collect any remaining cells
20	Spin at 1000 rpm (3) 1000 rpm for 5 mins (3) 00:05:00
21	Re-feed old 6wp plate for backup, 2 mls 2 mL per well
22	Aspirate supernatant, being careful to not aspirate the pellet
23	Tap the pellet to resuspend
24	Add media to a final volume of 5 mls 35 mL and pipette up and down to mix

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- 25 Add cell suspension to flask
- Place flask in incubator (5% CO2, 37°C) § 37 °C
- 27 Observe and feed the next day to remove debris, then feed every 2-3 days until 90-100% confluent

Clean Up

- 28 Throw away biohazard materials properly
 - a. 10 cm dishes with glass coverslips should be thrown away in biohazard red sharp container
- 29 Clean surgical tools, wear waterproof lab coat and eye protection/PPE
 - a. Brush and clean with 409 soap water. Rinse with water, dry on kimwipe, rinse with 100% ethanol, and then dry completely with kimwipe to prevent rust or water marks.
 - b. Prep for next autoclaving cycle
- 30 Clean and sterilize hood with 70% ethanol and turn on UV
- 31 Update cell culture notes in lab notebook