

Nov 02, 2023

Cell culture

DOI

<https://dx.doi.org/10.17504/protocols.io.36wgg3bk5lk5/v1>

Alexander Röntgen¹

¹University of Cambridge



Alexander Röntgen

University of Cambridge

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.36wgg3bk5lk5/v1>

Protocol Citation: Alexander Röntgen 2023. Cell culture. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.36wgg3bk5lk5/v1>

License: 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

Protocol status: Working

We use this protocol and it's working

Created: November 02, 2023



Last Modified: November 02, 2023

Protocol Integer ID: 90290

Keywords: sy5y cell, cell culture protocol, cell

Abstract

Protocol to culture SH-SY5Y cells.

Materials

- Medium: DMEM/F-12, GlutaMAX™ (ThermoFisher Scientific) + 10% Fetal Bovine Serum (Gibco™)
- Trypsin-EDTA (0.25%) (ThermoFisher Scientific)
- PBS, pH 7.4 (ThermoFisher Scientific)



Cell culture

- 1 Culture human SH-SH5Y cells at 37 °C and 5% CO₂
- 2 Split cells at 80–90% confluency
 - 2.1 Discard medium, rinse with PBS
 - 2.2 Incubate cells with Trypsin-EDTA for 5 min at 37 °C and 5% CO₂
 - 2.3 Add 9 mL medium to neutralise Trypsin-EDTA
 - 2.4 Centrifuge at 300 *g*, 5 min, RT
 - 2.5 Discard medium
 - 2.6 Resuspend in 10 mL medium
- 3 Split at desired ratio into fresh medium