

Sep 23, 2023

Cell culture

DOI

<https://dx.doi.org/10.17504/protocols.io.n2bvj3y5blk5/v1>

Elias Adriaenssens¹

¹Sascha Martens lab, University of Vienna, Max Perutz Labs - Vienna



Elias Adriaenssens

Sascha Martens lab, University of Vienna, Max Perutz Labs - ...

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.n2bvj3y5blk5/v1>

Protocol Citation: Elias Adriaenssens 2023. Cell culture. protocols.io
<https://dx.doi.org/10.17504/protocols.io.n2bvj3y5blk5/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: July 07, 2023



Last Modified: May 31, 2024

Protocol Integer ID: 84663

Keywords: Cell culture, ASAPCRN, routine cell culture maintenance, cell culture this protocol, cell culture, cell, maintenance

Funders Acknowledgements:

Aligning Science Across Parkinson's (ASAP)

Grant ID: ASAP-000350

Marie Skłodowska-Curie MSCA Postdoctoral fellowship

Grant ID: 101062916

Abstract

This protocol describes routine cell culture maintenance.

Materials

Reagents

- Dulbecco Modified Eagle Medium (DMEM, Thermo Fisher)
- Fetal Bovine Serum (FBS, Thermo Fisher)
- HEPES (Thermo Fisher)
- non-essential amino acids (NEAA, Thermo Fisher)
- Penicillin-Streptomycin (Thermo Fisher)
- Iscove's Modified Dulbecco's Medium (IMDM, Thermo Fisher)



Cell culture

5m

- 1 Grow HeLa and HEK293T cells in Dulbecco Modified Eagle Medium (DMEM, Thermo Fisher) supplemented with 10% (v/v) Fetal Bovine Serum (FBS, Thermo Fisher), 1M 25 millimolar (mM) HEPES (Thermo Fisher), 1% (v/v) non-essential amino acids (NEAA, Thermo Fisher), and 1% (v/v) Penicillin-Streptomycin (Thermo Fisher).
- 2 Culture HAP1 cells in Iscove's Modified Dulbecco's Medium (IMDM, Thermo Fisher), supplemented with 10% (v/v) Fetal Bovine Serum (FBS, Thermo Fisher) and 1% (v/v) Penicillin-Streptomycin (Thermo Fisher).
- 3 Regularly test all cell lines for mycoplasma contaminations.
- 4 Split the cells by trypsinization once confluent.
- 5 To this end, remove medium with Pasteur pipette.
- 6 Wash cells with 1x PBS and then add trypsin for  00:05:00 at  37 °C .
- 7 Afterwards, resuspend cells in medium and retain 10% for further culturing and expansion.
- 8 Discard the rest or collect for seeding for experiments.

5m

