

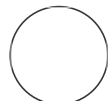


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MTT assay

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ABSTRACT

Protocol for MTT cytotoxicity assay on SH-SY5Y cells.

MATERIALS

- Medium: DMEM/F-12, GlutaMAXTM (ThermoFisher Scientific) + 10% Fetal Bovine Serum (GibcoTM)
- Trypsin-EDTA (0.25%) (ThermoFisher Scientific)
- PBS, pH 7.4 (ThermoFisher Scientific)
- RPMI medium (ThermoFisher Scientific)
- MTT kit (Abcam)
- 96-well plates, PS, F-bottom (Greiner Bio-One)
- Plate shaker
- Plate reader for absorbance measurement

OPEN ACCESS



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Protocol status: Working
We use this protocol and it's working

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General

- 1 Culture human SH-SY5Y cells at 37 °C and 5% CO₂

Day 1

- 2 Detach 80–90% confluent cells with Trypsin-EDTA
- 3 Count cells and seed 10000 cells/well
- 4 Incubate at 37 °C and 5% CO₂ for 24 h

Day 2

- 5 Aspirate medium from cells
- 6 Add in protein solutions
- 7 Place back at 37 °C and 5% CO₂ for 24 h

Day 3

- 8 Dilute MTT 1:10 in RPMI medium
- 9 Aspirate medium from cells
- 10 Add 100 μ L MTT/RPMI solution per well
- 11 Place back at 37 °C and 5% CO₂ for 4 h
- 12 Aspirate medium from cells
- 13 Add 100 μ L stop solution per well
- 14 Incubate at 37 °C, 500 rpm on plate shaker
- 15 Read out absorbance at 570 nm on plate reader

