

Designations: HT-22

Biosafety 1

Level:

Medium & See Propagation

Serum:

Organism: *Mus musculus* (mouse)

Source: **Tissue:** hippocampal

**Disease:** normal

**Cell Type:** neuronal

Growth adherent

Properties:

Propagation: The base medium for this cell line is formulated Dulbecco's Modified Eagle's Medium, To make the complete growth medium, add the following components to the base medium: 4.5g/L glucose ;fetal bovine serum to a final concentration of 10%

**Atmosphere:** air, 95%; carbon dioxide (CO<sub>2</sub>), 5%

**Temperature:** 37.0°C

Subculturing: **Protocol:**

1. Remove and discard culture medium.
2. Briefly rinse the cell layer with 0.25% (w/v) Trypsin - 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor.
3. Add 2.0 to 3.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 minutes).  
Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37C to facilitate dispersal.
4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new culture vessels.
6. Incubate cultures at 37C.

**Subcultivation Ratio:** A subcultivation ratio of 1:2 to 1:4 is recommended

**Medium Renewal:** 2 to 3 times per week

Preservation: **Freeze medium:** culture medium, 95%; DMSO, 5%

**Storage temperature:** liquid nitrogen vapor phase