

Rat Primary Hepatic Stellate Cells

Catalog No. RA-6242

Suggested Medium

M5569 Complete Hepatic Stellate Cell Medium /w Kit (125 ml)

Product Description

Rat Primary Hepatic Stellate Cells from Cell Biologics are isolated from Sprague-Dawley rat liver tissues and grown in tissue culture plates with Cell Biologics' Cell Culture Medium. Cells at passage 0 are cryo-preserved and each vial contains 0.2×10^6 cells. Vitamin A droplets in Hepatic Stellate Cells are visualized by blue autofluorescence when excited with UV light. Cells can be used for experiments under the cell culture conditions specified by Cell Biologics. Long-term culture of hepatic stellate cells is not recommended because these cells differentiate into fibroblast-like cells after plating. These cells are unable to proliferate in culture and cannot be passaged.

Storage

Cryopreserved cells will be shipped overnight on dry ice. Upon arrival, please immediately transfer the frozen cells to liquid nitrogen (-150°C) until ready for use. Primary cells should never be stored in a -20°C or -80°C freezer.

Authorized Uses of Cell Biologics' Products

Rat Primary Hepatic Stellate Cells from Cell Biologics are distributed for research purposes only. Our products are not authorized for human use, for in vitro diagnostic or therapeutic procedures. Transfer or resale of any Cell Biologics' cells or products from the purchaser to other markets, organizations or individuals is prohibited by Cell Biologics without the company's written consent. Cell Biologics' Terms and Conditions must be accepted before submitting an order.

Disclaimer

Investigators should handle the cells with caution and treat all animal cells as potential pathogens, since no test procedure can completely guarantee the absence of infectious agents.

Warranty and Liability

Cell Biologics' guarantee applies only to your purchase of Cell Biologics' Cells with Cell Biologics' Media and Coating Solution for appropriate cell culture and cell testing following Cell Biologics' online protocols within 35 days from the date of product delivery.

Primary Hepatic Stellate Cell Culture Protocol

All cell culture procedures must be conducted in a biosafety cabinet (BSL-2)
Any and all media, supplements, and reagents must be sterilized by filtration through a 0.2 µm filter.
Use aseptic technique to prevent microbial contamination.
Cryo-preserved cells must be stored in liquid nitrogen or seeded immediately upon arrival.

Medium

Review the information provided on the Cell Biologics' website about appropriate culture media (e.g. serum and other supplements). Use pre-warmed (37°C) cell culture medium of M5569 (30-50 ML) to recover cryo-preserved cells and when changing media or splitting cells.

Cell recovery from cryovial

1. Quickly thaw cells in cryo-vial by incubating them in a 37°C water bath for <1 min until there is just a small bit of ice left in the vial.
2. Promptly remove the vial and wipe it down with 70% ethanol.
3. Transfer cells from the vial to a sterile centrifuge tube. Add 5 ml of pre-warmed Cell Biologics Cell Culture Medium. Flush the vial with an additional 0.5-1 ml of medium to ensure complete transfer of cells to the centrifuge tube.
4. Centrifuge cells at 200 g for 5 minutes.
5. Aspirate the supernatant and resuspend the cell pellet in 3 ml of Cell Biologics' Cell Culture Growth medium.
6. Add resuspended cells into a tissue-culture treated plate (to seed on 2-3 wells of a 12-well plate or 1 well of 6-well plate).
7. Place a plate in a humidified, 5%-CO₂ incubator at 37°C until experiments.
8. Change fresh cell culture medium every 24-48 hours.
9. Cells should be checked daily under a microscope to verify appropriate cell morphology.

Note

If you have any questions or issues with culturing cells, please send us 2-3 images of cells (>80% confluence) for review.