Version Date: 2/5/24

Product Information Sheet

Human HepG2 Hepatocellular Carcinoma Expansion Media

Catalog Number: MR1010

Product Overview	
Product Name	**Human HepG2 Hepatocellular Carcinoma Expansion Media**
Catalog #s	MR1010
Quantity	450 mL
Product Form	Liquid
Cell Type	Human HepG2 Hepatocellular Carcinoma
Reagents Needed	Customer choice of high grade or fully defined Fetal Bovine Serum (FBS) (not included) Penicillin/Streptomycin/Amphotericin B solution or Penicillin/Streptomycin solution, 100X (not included)[1]

Product Description

This base media is specifically designed for the expansion of Human HepG2 Hepatocellular Carcinoma Cells. Base media does not contain fetal bovine serum (FBS).

Base media requires the addition of (i) high quality or fully defined Fetal Bovine Serum (FBS) and (ii) an antibiotic/antimycotic (recommended) solution to be considered a complete media, which is ready for use.

When used as directed, this base media will support robust cell growth and expansion.

Media is shipped with gel packs.

Note: This product is designed and tested to function with Cellular Engineering Technologies Inc. ("CET") product CR1015-500 Human HepG2 Hepatocellular Carcinoma Cells (not included). Although investigators are welcome to use this product with other hepatocellular carcinoma cells, CET cannot and will not guarantee this product's performance. Additionally, such use of third-party cell lines with this product will void CET's warranty should they not function as indicated. Please refer to CET's Terms & Conditions, which are available on www.celleng-tech.com.

Product Image

Media Formulation Instructions

Defrosting / Preparation	Defrost 50mL of FBS (not included) and 5mL of antibiotic/antimycotic solution (not included) in a 37°C water bath until ice in the tubes are no longer visible. Immediately disinfect the tubes and the bottle containing this base media with 70% isopropanol (not included).
Mixing	Working in a laminar flow hood, remove 5mL of the base media from the bottle and discard. This and all other procedures must be done in a sterile manner. Add 50mL of FBS to the base media. Add 5mL of the antibiotic/antimycotic solution to the base media[1]. Cap the bottle containing the mixed liquid solution and gently swirl a few times. This formulated media is now considered complete media and ready to use with cells.

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Cell Thawing and Plating Instructions (for CR1015-500 Hepatocellular Carcinoma Cells not included)	
Thawing	Remove vial of Human HepG2 Hepatocellular Carcinoma Cells (CR1015-500) (not included) from dry ice. Defrost the vial of cells in a 37°C water bath with constant, moderate agitation, until ice in the ampoule is barely visible. DO NOT OVERTHAW. Immediately disinfect the vial with 70% isopropanol (not included), making sure no isopropanol enters the vial.
Plating	Working in a laminar flow hood, open the vial and transfer the contents to a sterile 15 mL tube. Very slowly, add approximately 10 mL of complete media (see Media Formulation Instructions), pre warmed to 37°C before use. Centrifuge suspended cells at 200 x g for 10 minutes. Decant the medium and gently resuspend the pellet in the appropriate amount of complete media necessary to achieve a plating density of 20,000 cells/cm^2 of surface area. After 24 hours, aspirate media from the flask or dish, rinse with 1X Dulbecco's Phosphate Buffered Saline (not included) and replenish with fresh complete media, pre-warmed to 37°C before use.
Observation/ Expansion	It is normal for HepG2 cells to grow slowly initially, for a period of one-week post-thaw. It is also normal for some cells to be shed during media changes. HepG2 cells tend to grow in clusters rather than discrete monolayers. Subculture cells at a 1:3 split ratio using 0.25% Trypsin/EDTA (not included).

Storage and Stability		
	Storage Temperature	**Storage Time**
Human HepG2 Hepatocellular Carcinoma Expansion Media	4°C	3 months
complete media *(see Media Formulation Instructions)*	2-8°C	Not applicable
Avoid repeated exposure to room temperature and light.		

[1] These solutions should be portioned in 5mL aliquots, stored at -20C and never frozen/thawed. Although antimycotics are not necessary, CET highly recommends their usage for long-term cell culture. Antibiotics and antimycotics should not be used as an alternative to proper aseptic techniques.

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