

Hepatocyte Culture Medium

Complete Medium for the Maintenance of Mature Human Hepatocytes

Hepatocyte Culture Medium (HCM) is formulated for the maintenance of mature fresh, cryopreserved and even human stem cell-derived human hepatocytes. HCM is a Williams E base medium without phenyl red and contains stabilized L-glutamine and HEPES. After HCM Serum-Free Supplement is added to the basal medium and filtered to ensure sterility, the medium is complete and ready to use for maintenance of human hepatocytes plated on Collagen, Liver Biomatrix or in co-culture with human liver stromal cells. HCM is designed to maintain human hepatocytes for longer than 30 days in co-culture when fed daily. Hepatocyte Plating Medium is complete so you don't need to source additional components. All supplements required for making this medium complete come separate in frozen vials in the supplement pack. The basal medium is shipped at ambient temperature and the supplement packs are shipped on dry ice.

Making Hepatocyte Culture Medium

1. Hepatocyte Culture Medium (Cat.# HCM500) includes the following components:
 - a. Hepatocyte Culture basal medium (500ml bottle) is stored at 4°C
 - b. Hepatocyte Culture Frozen Supplement is stored at -80°C

Preparing Hepatocyte Culture Medium

1. Warm the basal medium to room temperature
2. Thaw the Frozen Serum-Free Supplement
 - a. Aseptically add the supplement to the basal medium
3. Filter through 0.22 µm filter unit
4. Store the complete medium at 4°C in the dark until ready for use.
5. Warm the complete medium to room temperature immediately before use.
 - a. Do not leave the complete medium in a water-bath for longer than 5 minutes as this may result in degradation of the medium components

Note: Degradation of some components is toxic to cells

6. Use complete medium within two weeks

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