

Fresh Hepatocyte Suspension

Product No.	Description
M00986	Male human
F00986	Female human
M00386	Male cynomolgus monkey
M00286	Male beagle dog
M00786	Male Sprague-Dawley rat
M00586	Male ICR/CD-1 mouse

Product Description

Fresh hepatocyte suspensions are available in a variety of formats. There is a minimum order of 10 million cells. Hepatocytes suspensions are used in short-term studies that do not last more than four hours. In Vitro Technologies recommends the use of plated hepatocytes for long-term studies. Hepatocyte suspensions can be used to evaluate metabolism, toxicity, and drug–drug interaction studies¹. The isolation schedule for our fresh animal hepatocytes can be found on the In Vitro Technologies calendar at www.celsis.com/invitrotechnologies. To receive notifications for both fresh animal and human hepatocytes fill out the hepatocyte notification form at www.celsis.com/product_form.html. Our hepatocytes perform the best when used with Celsis In Vitro Technologies InVitroGRO hepatocyte media.

Stability: Unpack and use immediately upon receipt.

Media Preparation:

- Complete *InVitroGRO*TM HI Medium if running suspension assays
 - Thaw the *Torpedo* Antibiotic Mix in a 37° C water bath for 3 to 5 minutes.
 - Add 1.0 mL *Torpedo* Antibiotic Mix per 45 mL *InVitroGRO* HI medium.
 - Note: Following the addition of *Torpedo* Antibiotic Mix, the shelf life for the complete medium is 7 days.
- Prepare Complete *InVitroGRO* CP Medium if plating hepatocytes.
 - Thaw the *Torpedo* Antibiotic Mix in a 37° C water bath for 3 to 5 minutes.
 - Add 1.0 mL *Torpedo* Antibiotic Mix per 45 mL *InVitroGRO* CP medium.
 - Note: Following the addition of *Torpedo* Antibiotic Mix, the shelf life for the complete medium is 7 days.

Unpacking Hepatocyte Suspensions

- Important: If suspensions cells will be plated, then use complete *InVitroGRO* CP medium for unpacking and recovering steps for fresh hepatocyte suspensions. If complete *InVitroGRO* HI medium is for unpacking and recovering fresh hepatocyte suspensions, the cells will not plate properly.
- Remove the conical tube(s) of cells from the shipment box.
- Gently resuspend the cells by inverting the tube multiple times. Continue inverting until an even suspension is created.
- Spin the cells at 50 × *g* for 5 minutes in a refrigerated centrifuge set to 4° C.
- Without disturbing the cell pellet, aspirate the supernatant from the tube using a sterile pipet.
- Re-suspend the cell pellet in 2 to 3 mL of 37° C *InVitroGRO* HI or CP medium per 10 million cells ordered.
- Determine the total cell count and the number of viable cells using the Trypan Blue exclusion method.
- Protocol for plating fresh hepatocyte suspensions can be located in our file library at www.invitrotech.com.

References

1. Li, A. P. Primary hepatocyte cultures as an in vitro experimental model for the evaluation of pharmacokinetic drug-drug interactions. *Adv. Pharmacol. Series* **1997**, *43*, 103–130.

Caution: Treat all products containing human and monkey-derived materials a potentially infectious, as no known test methods can offer assurance that products derived from human or monkey tissues will not transmit infectious agents.

All products are for research use only. Do not use in animals or humans. These products have not been approved for any diagnostic or clinical procedures.