

HepExtend™ Supplement (50X)

Description

HepExtend™ Supplement (50X) is an enriched supplement designed to enhance the culture lifespan of cryopreserved primary hepatocytes. Use the supplement in conjunction with Williams' Medium E (Cat. no. A12176) and the Hepatocyte Maintenance Supplement Pack (Cat. no. CM4000) following the recommended hepatocyte culture methods. When cultured in the presence of the HepExtend™ Supplement, primary human hepatocyte lots will live and be functional for 10 days or longer depending on the lot of cells and other assay conditions. HepExtend™ supplement does not contain growth factors, cytokines, fetal bovine serum, or pharmaceutical small molecules.

Product*	Catalog no.	Amount	Storage	Shelf life*
HepExtend™ Supplement (50X)	A27375-01	10 mL	-20°C to -5°C; Protect from Light	12 months

* Shelf life duration is determined from Date of Manufacture.

Product use

For Research Use Only. Not for use in diagnostic procedures.

Safety information

Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Important information

Divide thawed HepExtend™ Supplement (50X) into aliquots and store in a non-frost-free freezer at -20°C to -5°C. Do not freeze-thaw HepExtend™ Supplement (50X) more than twice.

Prepare medium











1. Quickly thaw HepExtend™ Supplement (50X) in a 37°C waterbath (should thaw in under 10 minutes). Do not prolong exposure of the concentrated supplement to 37°C.
2. Prepare Hepatocyte Maintenance Medium by adding Hepatocyte Maintenance Supplement Pack (Cat. no. CM4000) to Williams E Medium (Cat. no. A12176). For further details on preparing hepatocyte media, refer to Gibco® [hepatocyte media supplement guide](#).
3. Add HepExtend™ Supplement (50X) to the Hepatocyte Maintenance Medium to a final dilution of 1X. For example, add 10 mL of HepExtend™ Supplement (50X) to 500 mL of Williams' E Medium for a 1X complete medium.
4. *Optional:* Filter complete medium using 0.22-µm filter units.
5. Once supplemented, the complete medium is stable for up to 3 weeks when stored at 2–8°C in the dark.
6. Warm complete medium in a 37°C waterbath prior to daily feeding of cells. We recommend aliquotting the medium and warming only what is needed for the daily feed, keeping the main batch of medium at 2–8°C.
7. Refer to Gibco® [Thawing and Plating Cryopreserved Hepatocytes](#) protocol for detailed information on plating and culturing primary cryopreserved hepatocytes.

Note: HepExtend™ Supplement (50X) contains 0.12375 g/mL bovine serum albumin (BSA). Hepatocyte Maintenance Supplement (Cat. no. CM4000) contains 0.125 g/mL BSA, prior to dilution. The final complete HepExtend™ Hepatocyte Maintenance Medium will contain 0.003725 g/mL BSA.

Related products

Product	Cat. no.
Williams' Medium E (1X) without L-glutamine, without phenol red	A12176
Primary Hepatocyte Maintenance Supplements	CM4000
Primary Hepatocyte Thawing and Plating Supplements	CM3000
Geltrex® LDEV-Free Reduced Growth Factor Basement Membrane Matrix	A14132
Collagen I, Coated Plate	A11428
Hepatocyte Thaw Medium	CM7500
Human Plateable Hepatocytes, Transporter Qualified	HMCPST
Human Plateable Hepatocytes, Induction Qualified	HMCPIS
Human Plateable Hepatocytes, Metabolism Qualified	HMCPMS

Explanation of symbols and warnings

				
Caution, consult accompanying documents	Temperature Limitation	Keep away from light	Use By:	Consult instructions for use
				
Batch Code	Catalog number	Manufacturer	Sterilized using aseptic processing techniques	Read Safety Data Sheet

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions.

If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

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For additional technical information such as Safety Data Sheets (SDS), Certificates of Analysis, visit www.lifetechnologies.com/support.
For further assistance, email techsupport@lifetech.com.

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