

Human Platelet Lysate (hPL) – Product Information Sheet

Overview

Cytologics human platelet lysate (hPL) is used globally in stem cell and immunology research applications as a high performance culture media alternative to fetal bovine serum (FBS) and human AB serum.

For research involving stem cells and immune cells, culture media must provide rapid cell expansion of high efficacy cells while meeting quality and regulatory expectations. Cytologics Human Platelet Lysate meets those requirements for applications that do not require additional pathogen reduction technology. Product available as a research use only formulation.



Specifications

- Available in 100 and 500 mL bottles and 1L bag
- Large donor pool lot sizes
- Manufactured from outdated FDA/AABB approved apheresis platelet units
- FDA master file
- Manufactured under a certified ISO 9001:2015 Quality Management System

Applications

- Used as a cell culture supplement to replace FBS or AB Serum
- Pooled donor composition reduces lot-to-lot variability
- Supports a wide range of cell types including MSCs, T-Cells, NK Cells, Endothelial cells and more
- Typically used at 2%-10% concentrations
- Used in 2D and 3D expansion systems

Precautions

Cytologics human platelet lysate (hPL) products are produced using human platelet units obtained from U.S. Food & Drug Administration (FDA)-licensed and Association for the Advancement of Blood & Biotherapies (AABB)-accredited blood centers in the United States. These platelets were originally intended for use in patient transfusion. The safety of platelets used in transfusion is managed by the FDA. All platelet donors are tested for blood borne

pathogens HIV-1 and HIV-2, Hepatitis B, Hepatitis C, HTLV-I/II, Syphilis and West Nile Virus. Universal precautions should be used in the handling and disposal of hPL.

Instructions for Use

Receipt and Storage:

This product is supplied sterile filtered and aseptically filled. Sterility is maintained if container is not opened and not damaged. Recommended storage of this product is -20°C. For prolonged storage (>12 months), we recommend storing the product at -80°C.

Thawing Instructions:

For bottled product, place the container in a 37°C water bath until the product has no ice remaining. It is not recommended to thaw the product on a bench top or in a refrigerator. Once thawed, the product may be used immediately.

For the 1 liter bagged product, first ensure that the overpack bag is completely sealed. If possible, submerge only the portion of the bag containing the product below the water surface; keep the opening of the overpack bag/tubing above the water surface. Thaw the product until no ice remains. It is not recommended to thaw the product on a bench top or in a refrigerator. Once thawed, the product may be used immediately.

Appearance:

Turbidity or precipitate may appear upon thawing. This precipitate may also appear during short term storage or prolonged storage within a buffered system at a refrigerated temperature. This is normal and will not affect performance of the product. Filtration is not recommended.

Stability:

Thaw and aliquot the product upon receipt to minimize freeze/thaw cycles. For short term storage of up to 24 hours, the product must be stored at a temperature between 2-8°C.

Preparation and Use:

Optimal concentration of this product must be determined for each cell line and/or application. Cytologics hPL is typically used at concentrations between 2% and 10%.