

## Product Information Sheet

### Human Platelet Lysate

#### Description

Human Platelet Lysate (HPL) is a cell culture growth supplement obtained from human platelets. Replacing Fetal Bovine Serum (FBS) with HPL allows for expansion and potential clinical grade production of stem cells by eliminating xenogeneic risks and the transmission of bovine prions.

The Human Platelet Lysate products are standardized and safe cell culture supplements that ensure a high cell performance and reproducible results.

HPL contains abundant platelet-derived growth factors and cytokines, which stimulate cellular proliferation and maintain differentiation potential.

HPL supports the maintenance of numerous cell types. Due to its high amount of growth factors and cytokines, HPL is predestined to expand Mesenchymal Stromal Cells and Dermal Fibroblasts. Furthermore, it supports the growth of Epidermal Keratinocytes and Endothelial Colony Forming Cells.

HPL has the added advantage that cells proliferate faster, resulting in a greater number of cells in a shorter time.

All material is collected in the US and batches are fully tested for pathogens according to FDA guidelines and are found non-reactive for HBsAg, HIV I/II antibody, CMV, HCV- and HBC-antibody, HIV-, HCV-, HBV-, HAV-, PVB19-NAT, Syphilis and Treponema pallidum.

Each batch of HPL is tested for the absence of bacteria, fungi, yeast and Mycoplasma. In addition, biological performance of final batches is assessed by cell culture on MSC, Fibroblasts and Primary Cells.

Full batch documentation is available, including Certificates of Analysis.

#### 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.

### QUALITY - TRACEABILITY - INTEGRITY

#### Life Science Production

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## Stability

Thaw and aliquot the product upon receipt to minimize freeze/thaw cycles. For short term storage 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.

## Applications

Human AB Serum is particularly recommended for cell culture media as a growth supplement and in other research applications.

## Thawing

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 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.

## Product Information

Product Code	Product Description	Size
HPL-500A-NH	Human Platelet Lysate (hPL) Research Grade	500mL
HPL-500B-NH	Human Platelet Lysate (hPL) Research Grade	100mL
HPL-500A-PR	Human Platelet Lysate (hPL) Clinical Grade GMP-ready pathogen reduced	500mL
HPL-500B-PR	Human Platelet Lysate (hPL) Clinical Grade GMP-ready pathogen reduced	100mL
HPL-500A-SP	Human Platelet Lysate (hPL) Clinical Grade	500mL
HPL-500B-SP	Human Platelet Lysate (hPL) Clinical Grade	100mL

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## Packaging

Standard package size of 100 mL and 500mL with other sizes available on request. Free samples may be available for evaluation.

## Storage and Shelf Life

Shelf life of 5 years stored in original sealed packaging, away from light and between -16°C and -20°C.

**For Cell Culture, further Manufacturing and Research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in therapeutic, clinical or *in vitro* procedures.**

## Support

Life Science Production is a division of Life Science Group Ltd.

Life Science Production is [ISIA Traceability Certified](#)

Life Science Group Ltd is an ISO 9001:2015 Certified company

To learn more, contact us:

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