

Human Platelet Lysate Solution (hPL)

hPL is a cell culture growth supplement obtained from human platelets which can be used in place of FBS. hPL allows for expansion and potential clinical grade production of functional mesenchymal stromal cells (without loss of phenotype) by removing the risk of xenogeneic immune reactions and transmission of bovine prion and viral pathogens.



FEATURES

- Animal-serum free - derived from lysed human platelets
- Standardised supplement with minimal lot-to-lot variation
- Rich in growth factors, cytokines and proteins for improved cell performance
- Recommended for a wide range of human cell types, including human MSCs
- hPL is used at lower concentrations, typically 2.5%, 5% or 10%
- Suitable for use in R&D, production/manufacturing and cell therapy applications - full batch documentation provided including sterility and pathogen testing

LSP
LIFE SCIENCE PRODUCTION

Which hPL product should I choose?

Product	Key Benefits	Pack sizes available	Is heparin* needed?	Is it animal component-free?
Human Platelet Lysate Solution	Animal serum-free; most cost effective option	25 mL, 100 mL & 500 mL	Yes	Yes - when using xeno-free heparin
Human Platelet Lysate Solution-FD	Animal serum-free; fibrinogen-depleted	50 mL, 100 mL & 500 mL	No	No - contains traces of animal derived heparin
Human Platelet Lysate Solution-XF	Animal component-free; fibrinogen-depleted	50 mL, 100mL & 500 mL	No	Yes - synthetic heparin used in processing
Human Platelet Lysate Customised	Animal serum-free; customisable; small scale process development	Customisable	Yes	Yes - when using xeno-free heparin

hPL products are available in 3 different grades:

- **Research Grade** - designed to meet the needs of basic R&D
- **GMP Grade** - manufactured in a closed system under GMP-controlled conditions
- **GMP Clinical Grade** - viral-inactivated (gamma irradiation) for regulatory compliance, Suitable for cell therapy applications

Please note there is a charge per delivery, hPL solution is shipped on dry ice. *Two types of heparin available: Heparin (animal-derived) and Xeno-Free Heparin (animal component-free, fully synthetic & preservative-free). Heparin products are shipped ambient.

To request a quote or sample:

T: 01234 889180 or email: sales@lifescienceproduction.co.uk

Web: www.lifescienceproduction.co.uk/products/

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