Human Platelet Lysate for Cell Biology, Fibrinogen-depleted, GMP Grade

Catalog No: 54692
Lot No: XXXXX
Stability: stable at -20°C
Retest period: 24 months
Synonyms: Lysate of human thrombocytes; growth factor rich supplement for cell culture media

Background

Human Platelet Lysate, Fibrinogen-depleted, GMP grade is a cell culture supplement derived from human platelets collected from healthy donors at licensed blood centres following FDA guidelines. This Human Platelet Lysate is obtained from multiple donor units pooled in large batch sizes to produce a consistent product.

Human Platelet Lysate, Fibrinogen-depleted, GMP grade is manufactured from platelet units obtained from healthy blood donors at FDA-licensed blood centers. Donors have been tested using FDA-licensed tests and found negative for HBsAg, Hepatitis B core antibody (anti-HBc), HIV antibody (anti-HIV-1/2), Hepatitis C antibody (anti-HCV), HTLV-1/2 antibody (anti-HTLV-1/2), *Trypanosoma cruzi* antibody (anti-*T. cruzi*), HIV-1, HCV, HBV, WNV nucleic acid testing and Syphilis microhemagglutination test.

Human Platelet Lysate, Fibrinogen-depleted, GMP grade is for *in vitro* and manufacturing use only. The product is not intended for direct therapeutic use. Human Platelet Lysate for cell biology, Fibrinogen-depleted, GMP grade is aseptically processed. Microbial cultures are tested negative. Quality control testing is carried out in a certified test laboratory.

Note: Despite all testing, proper safety precautions for potentially infectious agents must be taken. All human blood products should be handled in accordance with currently acceptable biosafety practices and guidelines for the prevention of blood borne viral infections.

Tests	Specifications
Appearance:	yellow to buff liquid
Sterility:	no microbial growth
Mycoplasma:	not detected
Endotoxin:	<10 EU/mL
Osmolality:	tested
pH:	tested
Cell Growth Performance:	promotes growth and expansion of human Mesenchymal Stem Cells for ≥3 passages
Total Protein:	4.0 – 8.0 g/dL

Introduction

Human Platelet Lysate is a superior, xeno-free alternative to serum-supplementation (such as FBS or human serum). It is a growth factor rich supplement for cell culture media and strongly supports the in-vitro expansion and maintenance of various primary cells and cell lines.

Human Platelet Lysate for cell biology, Fibrinogen-depleted, GMP grade is manufactured from human platelets sourced from FDA-licensed blood centers to provide a safe, consistent and high-performance additive. It is Fibrinogen-depleted and does not require heparin-addition. As a result, application workflows are simplified and negative effects caused by heparin are eliminated. Human Platelet Lysate for cell biology, Fibrinogen-depleted, GMP grade may contain traces of a xeno-free heparin due to the fibrinogen-depletion process.

Each batch of this Human Platelet Lysate is produced from large pools of platelet units to ensure batch-to-batch consistency and enable reproducible conditions. Human Platelet Lysate for cell biology, Fibrinogen-depleted, GMP grade is of US origin and obtained from healthy donors following FDA guidelines.

Features

- Human-derived product; 100% xeno-free
- No animal-related risks; no ethic concerns
- Improved cell performance
- No Heparin-addition required
- Stable price
- Suitable for GMP

Storage and Shelf Life

Human Platelet Lysate for cell biology, Fibrinogen-depleted, GMP grade is stable for at least 24 months at -20 °C. For longer-term storage we recommend to store at -80°C until use. Upon thawing, it is recommended to re-freeze aliquots of the remaining Human Platelet Lysate. Repeated freeze-thaw cycles of Human Platelet Lysate should be avoided and can cause an increase of insoluble particle formation. Human Platelet Lysate can be stored at 4°C for 7-10 days.

Instruction for use

- Thaw Human Platelet Lysate. We recommend to thaw overnight at 4°C or for 1 hour in a 37°C water bath.
- Insoluble particles or powdery precipitations may form in thawed Human Platelet Lysate but do not affect cell culture performance. If insoluble particles are disturbing, we recommend to remove particles by centrifugation of pure Human Platelet Lysate at 3.400 x g for 3-5 minutes.
- The medium concentration of Human Platelet Lysate strongly depends on cell type and experimental conditions. Therefore, we recommend to test different final concentrations when you switch from FBS to Human Platelet Lysate: Prepare your cell culture medium by adding 1% - 10% (v/v) Human Platelet Lysate to the basal medium (e.g. MEM α, DMEM). Add other supplements that are required for your final media formulation, such as 2 mM L-glutamine and – if indicated – 100 U/mL PenStrep.
- Start your experiment.
- Readily prepared cell culture medium can be stored at 4°C and is stable for approximately one month.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.