

Technical Data Sheet

Human Platelet Lysate, Fibrinogen-depleted, GMP grade

for cell biology

Order number: 2320

Available package sizes

2320ML050	50 ml
2320ML100	100 ml
2320ML500	500 ml

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 guidelines¹.

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.

***Human Platelet Lysate for cell biology, Fibrinogen-depleted, GMP grade* is intended for in vitro and manufacturing use only. The product is not intended for direct therapeutic use.**

¹Note: 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.



Features

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

- x Thaw *Human Platelet Lysate*. We recommend to thaw overnight at 4°C or for 1 hour in a 37°C water bath.
- x **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.
- x 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.
- x Start your experiment.
- x Readily prepared cell culture medium can be stored at 4°C and is stable for approximately one month.

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