

Technical Data Sheet

Human Platelet Lysate, Fibrinogen-depleted & Gamma-irradiated, GMP grade for cell biology

Order number: 2322

Available package sizes:	2322ML050	50 ml
	2322ML100	100 ml
	2322ML500	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 culture, Fibrinogen-depleted & Gamma-irradiated, GMP grade is Fibrinogen-depleted¹ and virus-inactivated and perfectly suited to clinical trial and therapeutic development needs. This product combines excellent cell performance rates and a high safety level.

Human Platelet Lysate for cell biology, Fibrinogen-depleted & Gamma-irradiated, GMP grade is manufactured from human platelets sourced from FDA-licensed blood centers to provide a safe, consistent and high-performance additive. The entire manufacturing process, test procedure and release comply with the relevant GMP guidelines. *Human Platelet Lysate for cell biology, Fibrinogen-depleted & Gamma-irradiated, GMP grade* is gamma-irradiated at a dose of 25~40 kGy in order to comply with the highest safety guidelines for clinical applications. It does not require heparin-addition.

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 & Gamma-irradiated, GMP grade* is of US origin and obtained from healthy donors following FDA guidelines².

Human Platelet Lysate for cell biology, Fibrinogen-depleted & Gamma-irradiated, GMP grade is aseptically processed. Microbial cultures are tested negative. Virus panel testing is performed according to ICH and EMA guidelines (ICH Q5A (R1) and CPMP/BWP/268/95). Quality control testing is carried out in a certified test laboratory.

¹*Human Platelet Lysate for cell biology, Fibrinogen-depleted & Gamma-irradiated, GMP grade* may contain traces of a xeno-free heparin due to the fibrinogen-depletion process.

²Note: 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.



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

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 Virus-inactivated
- x Stable price
- x Suitable for GMP

Storage and Shelf life

Human Platelet Lysate for cell biology, Fibrinogen-depleted & Gamma-irradiated, 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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