

ELAREM™ Prime

Product Description

ELAREM™ Prime is the first commercially available cell culture supplement based on human Platelet Lysate. This product offers the same benefits as FBS but in an animal serum-free environment. The xeno-free growth promoter is uniquely affordable compared to other xeno-free alternatives and combines a rich growth factor content with batch-to-batch consistency. ELAREM™ Prime eliminates the need to batch test that enables a very simple and cost effective alternative to maintaining animal serum-free cell culture conditions.

ELAREM™ Prime is based on time-expired transfusion-approved human platelets. The growth factor composition promotes cell proliferation comparable with FBS.

ELAREM™ Prime is manufactured from pooled platelet units under sterile conditions. The lot-to-lot consistency ensures reproducible results without the need of batch testing. ELAREM™ Prime supports *in vitro* cell expansion in a wide range of applications, from academic research to industrial manufacturing and *in vitro* diagnostics. The standardized growth supplement enhances propagation and maintenance of a wide variety of cell types and lines.

ELAREM™ Prime offers a simple method for switching from animal serum based cell culture conditions.

Recommended for

ELAREM™ Prime supports the cell growth performance of Mesenchymal Stem Cells (MSC) without loss of phenotype.

In vitro propagation and maintenance of non-primate cell lines needs to be tested and optimized on a case-by-case basis.

Donor Qualification and Testing

ELAREM™ Prime is manufactured from human platelet units obtained from healthy donors at EMA-licensed blood centres. Blood donors have been qualified according to current EU guidelines for donor eligibility criteria. The product is derived from human donor platelets collected from healthy consented volunteer donors at certified German Blood banks (21CFR640). All individual donors and complete batches are fully tested for pathogens according to 21CFR610.

Specifications

ELAREM™ Prime is a xeno-free cell growth promoter derived from human platelet units.

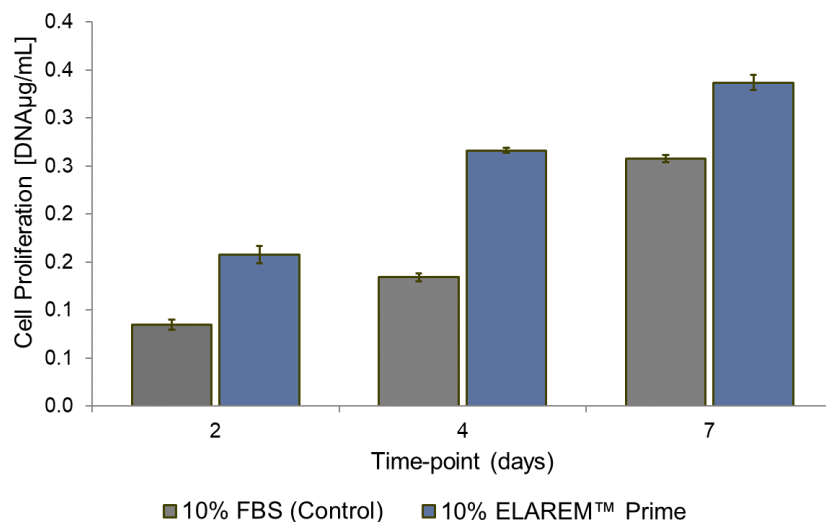
Product Origin	EU
Sterility	Each batch is aseptically processed. Microbial cultures tested negative. Quality control testing is carried out in a certified test laboratory.

Pathogen Testing	Platelet units are obtained from healthy blood donors who have been tested and found negative for Anti-HIV-1/2, Anti-HCV, Anti-HBc, HBs-Ag, HBV-NAT, HCV-NAT, HIV-1-NAT, <i>Treponema pallidum</i> and <i>Syphilis</i> .
Endotoxin	All batches are tested according to Ph. Eur. 5.0, 2.6.14. to determine the level of endotoxin - <10 EU/mL.
Growth promotion	Cell growth performance of final batches of ELAREM™ Prime are assessed by cell culture on MSC.
Mycoplasma	All batches are tested according to Ph. Eur. 7.0, 2.6.7.
Filtration	Batches of ELAREM™ Prime are sequentially filtered to 0.2 and finally 0.1 micron to ensure sterility before being dispensed, aseptically into sterile bottles.

Complete results are reported on the Certificate of Analysis supplied with each batch.

Performance

Comparison of growth performance of hASC when cultured in ELAREM™ Prime compared to FBS.



Product Information

Product Code	Product Description	Pack Size
ELA-PR-001C	ELAREM™ Prime, Research Grade, Heparin Required	50 mL
ELA-PR-001A	ELAREM™ Prime, Research Grade, Heparin Required	500 mL
HSUP-001M	HPL Supplement - Heparin (5.000 U/mL)	0.5 mL

HSUP-XF-001M	HPL Supplement - Xeno-free Heparin - (12.5mg/mL)	0.5 mL
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Due to its formulation, ELAREM™ Prime contains coagulation factors. To inhibit coagulation, heparin should be added to the complete cell culture medium.

Shelf life

Shelf life is 12 months from the date of manufacture.

Storage & Handling

Recommended storage is -20°C or below. Long term storage -80°C.

It is recommended to avoid freeze-thaw cycles as this can lead to an increase in the formation of insoluble particles. Ideally, material should be thawed under controlled conditions and re-aliquoted into smaller volumes before re-freezing.

Insoluble particles may form in thawed ELAREM™ Prime. Particulate formation does not affect cell culture performance. If clotting or insoluble particles appear in complete cell culture medium, it is recommended to filter the complete medium using a 0.22 µm filter after ELAREM™ Prime is diluted in the basal medium. Filtering does not compromise the cell growth performance (as tested using MSC). However, filtering is NOT recommended for 100% concentrate ELAREM™ Prime.

How do I use ELAREM Prime?

1. Thaw ELAREM™ Prime, ideally, overnight at 4°C or for 1 hour in a 37°C water bath.
2. Prepare complete cell culture medium by adding 10% ELAREM™ Prime to basal medium (i.e. MEM α, GlutaMAX™ Supplement, no nucleosides) with 1% of Penicillin/Streptomycin as final concentration.
3. Heparin should be added at a final concentration of 2 U/mL Heparin (cat.no. HSUP-001M) or 0.024 mg/mL Xeno-Free Heparin (cat. no. HSUP-XF-001M) to avoid coagulation of the complete cell culture medium.
4. Complete cell culture medium can be stored at 4°C and is stable for approximately eight weeks.

Shipping

Product ships frozen on dry ice.

Precaution

All Human derived products have been thoroughly tested to strict guidelines. However, while all of the human donors that go into producing each batch of platelet concentrate have been tested and have been found negative for several virus antibodies and antigens, there is no known test method that can offer complete assurance that human derived blood products are not capable of transmitting an infectious disease. It is therefore important that human platelet lysate be considered potentially infectious and handled accordingly.

Disclaimer

ELAREM™ Prime is for *in vitro* experimental and research use only (RUO) and the product is not intended for direct human or animal use.

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

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