Human Platelet Lysate, Pathogen-Reduced, GMP-Compliant

Growth factor-rich supplement for the expansion of cells in vitro

Catalog #200-0720	50 mL
#200-0721	500 mL

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Product Description

GMP-compliant, fibrinogen-depleted human platelet lysate (hPL) is pathogen reduced using E-beam irradiation. hPL is a growth factor-rich cell culture supplement that is xeno-free, as it is derived from healthy donor human platelets at U.S. Food and Drug Administration (FDA)-registered blood centers. Multiple donor units (~100 donors) are pooled during manufacturing to minimize lot-to-lot variability.

E-beam irradiation is delivered at a higher dosage with less exposure time compared to gamma irradiation. This reduced exposure time results in a less adverse impact on sensitive biologics/tissues and preserves product quality. The irradiation dosage for this product is validated to reduce pathogens such as the viruses listed below under Precautions.

Properties

Storage: Store at -20°C.

Shelf Life: Stable until expiry date (EXP) on label.

Precautions

Donors have been tested in accordance with 21 CFR 630, 21 CFR 610.40, FDA guidance, and Association for the Advancement of Blood & Biotherapies (AABB) Standards for Blood Banks and Transfusion Services. Donors were found to be negative for HIV antibody (anti-HIV 1/2), hepatitis C antibody (anti-HCV), hepatitis B core antibody (anti-HBc), HTLV-1/2 antibody (anti-HTLV-1/2), HBsAg, syphilis microhemagglutination assay, WNV nucleic acid testing, HCV nucleic acid testing, HIV-1 nucleic acid testing, and HBV nucleic acid testing. As testing cannot completely guarantee that the donor was virus-free, this product should be treated as potentially infectious and only used following appropriate handling precautions such as those described in biological safety level 2.

Directions for Use

1. Thaw hPL in a 37°C water bath. Mix well.
   NOTE: Product may appear cloudy or flocculent upon thawing. This will not affect performance. Filtration of pure hPL is not recommended, as it will quickly clog the filter.
   NOTE: If not used immediately, aliquot and store at -20°C. Do not exceed the shelf life of the supplement. Once aliquots are thawed, do not re-freeze.
2. Add hPL to cell culture medium to a final concentration of 2 - 10%. Optimal concentration must be determined for each cell type, cell line, and/or application.
   NOTE: If desired, filter sterilization of complete medium may be performed using a 0.2 - 0.22 µm low protein binding polyethersulfone (PES) filter unit (e.g. Catalog #38079 [0.2 µm, 250 mL]; Catalog #38078 [0.22 µm, 150 mL]). The effect of filter sterilization on performance must be determined for each cell type, cell line, and/or application.