PRIME-XV MSC Basal XSFM

Catalog #	Product	Size*
91235G	PRIME-XV MSC Basal XSFM	500 mL liquid

*Additional sizes are available upon request

Intended Use

For research or further manufacturing use only.

Product Description

PRIME-XV MSC Basal XSFM is a xeno-free and serum-free basal medium for the expansion of mesenchymal stem/stromal cells (MSCs). The medium requires supplementation with human platelet lysate (hPL) or other supplements designed to support MSC culture. The medium does not contain antibiotics.

Quality Assurance

All quality control test results are reported on a lot specific Certificate of Analysis which is available at https://fujifilmbiosciences.fujifilm.com/ or upon request.

Storage Instructions and Stability

Handle using aseptic techniques to avoid contamination. Store at 2-8˚C and protect from light until ready to use. This product is stable at 2-8˚C, under original packaging, for 12 months. Do not use after the assigned expiration date. Not validated for use beyond the unopened expiry shelf life.

Precautions

Results may vary due to variations among human MSCs derived from different donors.

Components for this product have been sourced following the guidelines of EP 5.2.12, “Raw Materials of Biological Origin for the Production of Cell-Based and Gene Therapy Medicinal Products”. This product contains components derived from human plasma, sourced from FDA-licensed and inspected donation centers and tested, and found negative for, HIV-1/2, hepatitis B surface antigen (HBsAg), and hepatitis C virus (HCV). However, since no test method offers complete assurance that products of human origin are noninfectious, handle all human source material as if potentially infectious using universal precautions.

Directions for Use

The following protocol is for the expansion of human mesenchymal stromal/stem cells (hMSCs) derived from adipose, bone marrow, and umbilical cord in two-dimensional culture vessels. The protocol has been optimized for 5% human platelet lysate (hPL) supplementation using PLTGold. Modifications to the protocol may be necessary to achieve optimal MSC growth for different donors and/or applications.

Preparation of PRIME-XV MSC Basal XSFM for Use

1. Thaw hPL following manufacturer's protocol.
2. Prepare complete medium by adding 5% (v/v) of hPL to PRIME-XV MSC Basal XSFM. *e.g. add 26.3 mL of hPL into 500 mL of PRIME-XV MSC Basal XSFM.*
3. Mix well by pipette or by gentle inversion. Do not mix vigorously.
4. Let the complete medium warm to room temperature before use. Complete medium may be used up to 2 weeks when stored at 2-8°C and protected from light.

Recovery and Culture of Cryopreserved Human MSCs

1. Rapidly thaw frozen vial of cells in a 37°C water bath.
2. Pipette the entire contents of the cryovial into a 15 mL conical tube. Slowly add 5 to 10 mL of pre-warmed complete medium.
3. Centrifuge cells down at 400 x g for 5 minutes. Aspirate off supernatant.
4. Resuspend the cell pellet in a small amount of pre-warmed complete medium and count the cells.
5. Seed the cells into a TC-treated culture vessel at a density of 2,500 to 7,500 cells/cm^2. *Note: some MSC donors may benefit from pre-coating the culture vessel with an adhesion protein such as fibronectin.*
6. Incubate the cells at 37°C in a humidified atmosphere of 5% CO_2 in air.
7. Every 2 to 3 days, remove spent media and feed the cells with pre-warmed complete medium.
8. Subculture when cells reach 70-80% confluence. Do not allow the cultures to become totally or over confluent. Subculturing under suboptimal conditions may affect product performance.

Related Products

Catalog #	Product	Size
91140	PRIME-XV FreezIS DMSO-Free	10 mL and 100 mL liquid
91139	PRIME-XV FreezIS	10 mL and 100 mL liquid
91137	PRIME-XV Adipogenic Differentiation SFM	100 mL liquid
91138	PRIME-XV Chondrogenic Differentiation XSFM	100 mL liquid
31002	PRIME-XV Human Fibronectin	1 mg liquid
91149	PRIME-XV MSC Expansion XSFM	1 L liquid
91149DC	PRIME-XV MSC XSFM Dual Component Kit with Phenol Red	Kit of 5 L liquid in bag and 10 mL frozen supplement in bag
91214DC	PRIME-XV MSC XSFM Dual Component Kit without Phenol Red	Kit of 5 L liquid in bag and 10 mL frozen supplement in bag
PLTGOLD27GMP-GI PLTGOLD100GMP-GI PLTGOLD500GMP-GI PLTGOLD1000GMP-GI	PLTGold Gamma Irradiated Clinical Grade	27 mL, 100 mL, 500 mL, and 1 L liquid
PLTGOLD27GMP PLTGOLD100GMP PLTGOLD500GMP PLTGOLD1000GMP	PLTGold Clinical Grade	27 mL, 100 mL, 500 mL, and 1 L liquid
PLTGOLD27R PLTGOLD100R PLTGOLD500R	PLTGold Research Grade	27 mL, 100 mL, and 500 mL liquid
PLTMax27R PLTMax100R PLTMax500R	PLTMax Research Grade	27 mL, 100 mL, and 500 mL liquid

Technical Support

CONTACT US

For more information or assistance, contact Customer Service at:

- Email: fisitmrequest@fujifilm.com
- Direct line: +1 800 577 6097

WEBSITE RESOURCES

Visit the website at https://fujifilmbiosciences.fujifilm.com/ for technical resources and information including:

- Safety Data Sheets (SDS)
- COAs (when available)
- FAQs (When available)
- Product literature
- Complete list of offices and contact information by country

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