

PRIME-XV Human Fibronectin

Catalog #	Product	Size
31002	PRIME-XV Human Fibronectin	1 mg liquid

Intended Use

For research or further manufacturing use only. Not for Injection or diagnostic procedures.

Product Description

PRIME-XV Human Fibronectin can be used as a coating cell culture substrate to support optimal attachment and growth of human primary cells, including stem/ progenitor cells. The recommended concentration for this application is typically 1-5 µg/ mL. It can also be added to the media to support cell spreading at a concentration of 0.5-50 µg/ mL. PRIME-XV Human Fibronectin is derived from human plasma. The human serum used for the purification of this product was certified by the supplier to be HIV and HBsAg negative at the time of shipment. Human blood products should always be treated in accordance with universal handling precautions. PRIME-XV Human Fibronectin is supplied as 0.2 µm filtered solution in Tris-HCl, NaCl and Urea.

Quality Assurance

All quality control test results are reported on a lot specific Certificate of Analysis which is available at or upon request.

Shipping

This product is shipped with dry ice. Upon receipt, store it immediately with or without reconstitution at the temperature recommended below.

Storage Instructions and Stability

Upon receipt, store this product at or below – 20°C in a manual defrost the freezer. The unopened item is stable for at least 20 months from the date of manufacture when stored at or below –20°C in a manual defrost the freezer. PRIME-XV Human Fibronectin can also be stored for up to 6 months at 2 to 8°C under sterile conditions. Avoid vortexing and excessive agitation. This reagent should not be used beyond the expiration date. Repeated freeze-thaw cycles should be avoided. Results may vary due to variations among human stem/ progenitor cells.

Precautions

The safety and efficacy of this product in diagnostic or other clinical uses have not been established.

Directions for Use

PRIME-XV Human Fibronectin, (Fujifilm Irvine Scientific, Catalog # 31002) amount of matrix protein is dependent on the experimental design of each individual investigator. The recommended concentration as cell culture substrate is typically 1-5 $\mu\text{g}/\text{mL}$. It can also be added in the media to support cell spreading at a concentration of 0.5-50 $\mu\text{g}/\text{mL}$.

This example shows how to coat a T-175 flask with fibronectin at 5 $\mu\text{g}/\text{mL}$. Based on the user's need, a T-175 flask can be coated with 10-12 mL of fibronectin solution. A final volume of 12 mL was used in the example shown below.

Using: $C_1 \times V_1 = C_2 \times V_2$

Where: $C_1 = C_{\text{stock fibronectin concentration}}$ (for example 2.43 mg/mL = 2.43 $\mu\text{g}/\mu\text{L}$)

$V_1 = V_{\text{required stock volume (mL)}}$ = need to determine

$C_2 = C_{\text{coating solution fibronectin concentration}}$ (5 $\mu\text{g}/\text{mL}$)

$V_2 = V_{\text{final volume (mL)}}$ (12 mL)

$$2.43 \mu\text{g}/\mu\text{L} \times V_1 = 5 \mu\text{g}/\text{mL} \times 12 \text{ mL}$$

$$V_1 = (60 \mu\text{g}) / 2.43 \mu\text{g}/\mu\text{L}$$

$$V_1 = 24.7 \mu\text{L}$$

Therefore, 24.7 μL of Fibronectin Stock (2.43 mg/mL) in 12 mL of PBS will yield a 5 $\mu\text{g}/\text{mL}$ coating solution for a T-175 flask.

Note: Fibronectin stock concentration varies from batch to batch. Hence, C_1 in the above equation should be consistent with the stock concentration mentioned on the product label.

Related Products

Catalog #	Product	Size
91135	PRIME-XV MSC Expansion SFM	250 mL and 1L
91149	PRIME-XV MSC Expansion XSFM	250 mL and 1L

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 www.irvinesci.com for technical resources and information including:

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

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Effective Date: