

MesenCult™-XF Medium

Defined, Xeno-Free Medium for Human Mesenchymal Stem Cells

Catalog #05420 500 mL
Catalog #05429 1 Kit



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Product Description

MesenCult™-XF Medium is a standardized, xeno-free, serum-free medium for the culture of human mesenchymal stem and progenitor cells (MSCs). MesenCult™-XF Medium is optimized for the expansion of bone marrow-derived human mesenchymal stem cells in vitro as well as their enumeration using the colony-forming unit - fibroblast (CFU-F) assay. MesenCult™ XF Medium supports long-term growth of MSCs and cells maintain multi-lineage differentiation potential.

MesenCult™-XF Medium must be used in conjunction with the MesenCult™-SF Attachment Substrate (Catalog #05424) and the MesenCult™-ACF Dissociation Kit (Catalog #05426). Components of MesenCult™-SF Attachment Substrate and MesenCult™-ACF Dissociation Kit are tested for optimal cell adherence when cells are cultured with MesenCult™-XF Medium.

MesenCult™-XF Medium must be supplemented with L-Glutamine (Catalog #07100).

Ordering Information

PRODUCT NAME	CATALOG #	SIZE	KIT COMPONENTS
MesenCult™-XF Medium	05420	500 mL	• MesenCult™-XF Basal Medium • MesenCult™-XF Supplement (5X)
MesenCult™-SF Culture Kit	05429	1 Kit	• MesenCult™-XF Basal Medium • MesenCult™-XF Supplement (5X) • MesenCult™-SF Attachment Substrate

Component Storage and Stability

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
MesenCult™-XF Basal Medium†	05421	400 mL	Store at 2 - 8°C.	Stable for 12 months from date of manufacture (MFG) on label.
MesenCult™-XF Supplement (5X)* †	05422	100 mL	Store at -20°C.	Stable for 12 months from date of manufacture (MFG) on label.
MesenCult™-SF Attachment Substrate*	05424	5 mg	Store at 2 - 8°C	Stable until expiry date (EXP) on label.

*This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

†This component is sold as part of MesenCult™-XF Medium (Catalog #05420) and is not available for individual sale.

Directions for Use

Use sterile techniques to prepare complete MesenCult™-XF Medium (Basal Medium + Supplement + L-Glutamine). The following example is for preparing 500 mL of complete medium. If preparing other volumes, adjust accordingly.

NOTE: Complete MesenCult™-XF Medium should be prepared in volumes that can be **used within 5 days**.

1. Thaw MesenCult™-XF Supplement (5X) at 2 - 8°C overnight. Mix thoroughly.

NOTE: Once thawed, use immediately or aliquot and store at -20°C. Do not exceed the shelf life of the supplement. After thawing the aliquots, use immediately. Do not re-freeze.

2. Add 100 mL of Supplement to 400 mL of Basal Medium. Mix thoroughly.

3. Add L-Glutamine (Catalog #07100) to a final concentration of 2 mM. Mix thoroughly.

NOTE: If not used immediately, store complete MesenCult™-XF Medium at 2 - 8°C for up to 5 days.

For more information on culturing human MSCs with MesenCult™-XF Medium, refer to the Technical Manual: Culture of Human Mesenchymal Stem Cells Using MesenCult™-XF Medium (Document #29184) available on our website at www.stemcell.com or contact us to request a copy.

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