

Mesenchymal Stem Cell Growth Medium DXF

PromoCell

Instruction Manual

Product	Size	Catalog Number
Mesenchymal Stem Cell Growth Medium DXF (Ready-to-use)	500 ml	C-28019

Recommended for

- Human Mesenchymal Stem Cells from Bone Marrow (hMSC-BM)
- Human Mesenchymal Stem Cells from Umbilical Cord Matrix (hMSC-UC)
- Human Mesenchymal Stem Cells from Adipose Tissue (hMSC-AT)

Product Description

The PromoCell Mesenchymal Stem Cell Growth Medium DXF has been designed for the expansion of undifferentiated, multipotent Mesenchymal Stem Cells (MSC) in a fully defined, xeno-free culture environment.

The optimized formula supports MSC self-renewal with high efficiency resulting in robust proliferation of undifferentiated multipotent MSC. Primary isolation of MSC from bone marrow is supported as well.

In combination with the Cell Dissociation Solution ACF (C-41320) and human fibronectin (C-43060), the PromoCell MSC Growth Medium DXF provides a completely xeno-free and defined culture system for human MSC.

The Medium consists of a bottle with 450 ml of Basal Medium and one vial with 50 ml of SupplementMix. Addition of the SupplementMix to the Basal Medium results in 500 ml complete medium.

Supplementation Details

PromoCell MSC Growth Medium DXF

contains all growth factors and supplements except attachment- and spreading factors (see "Culture vessel surface coating").

PromoCell MSC Growth Medium DXF does not contain antibiotics or antimycotics and is formulated for use in an incubator with an atmosphere of 5% CO₂.

Culture vessel surface coating

PromoCell MSC Growth Medium DXF does not contain attachment- and spreading factors. Therefore, culture vessels to be used with MSC Growth Medium DXF must be precoated with 10 µg/ml human Fibronectin (C-43060) according to the instruction manual. Alternatively, bovine Fibronectin (C-43050) may be used.

Preparation of the supplemented Medium for Use

Thaw the SupplementMix at 15 to 25°C. Aseptically mix the supplement solution by carefully pipetting up and down. Then, transfer the contents of the SupplementMix to the Basal Medium. Close the bottle and swirl gently until a homogenous mixture is formed.

Storage and Stability

Store the Basal Medium at 4 to 8°C in the dark and the SupplementMix at -20°C immediately after arrival. Do not freeze the Basal Medium. If stored properly, the products are stable until the expiry date stated on the label. After adding

the supplements to the Basal Medium, the shelf life of the complete medium is 3 weeks, if stored at 4 to 8°C in the dark. For use, pre-warm only the needed amount of the complete medium and keep the remaining medium refrigerated at 4 to 8°C.

Note: The SupplementMix is delivered thawed and can be frozen after arrival without losing any activity. Aliquots may be prepared before freezing, if desired.

Quality Control

All lots of PromoCell MSC Growth Medium DXF are subject to comprehensive quality control tests using primary human bone marrow derived MSC. Each lot of PromoCell MSC Growth Medium DXF is tested for the ability to support robust expansion and maintenance of multipotency. Approved in-house lots of media are used as a reference. In addition, all lots of media have been tested for the absence of microbial contaminants (fungi, bacteria, mycoplasma).

Intended Use

The product is for *in vitro* use only and not for diagnostic or therapeutic procedures. For safety precautions please see appropriate MSDS.

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