FibroGRO™ Xeno-Free Human Fibroblast Expansion Medium

Cell Culture Media

Cat. # SCM044

FOR RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC PROCEDURES
NOT FOR HUMAN OR ANIMAL CONSUMPTION

pack size: 500mL

Store at -20ºC

Certificate of Analysis

Description

FibroGRO™ Xeno-Free Human Fibroblast Expansion Medium is a new variation of our FibroGRO™ cell culture media that is optimized for the culture of fibroblasts without the use of animal-derived components. EMD Millipore's FibroGRO™ cell system is perfect for establishing Xeno-Free human feeder layers for induced pluripotent, embryonic, and general stem cell culture. It can also be used to establish a model to study wound healing, toxicology and basic cell biology. FibroGRO™ Xeno-Free supports the growth of these cells in a 2% human serum environment at rates equal to or greater than comparable media supplemented with 2-10% FBS. Our FibroGRO™ Xeno-Free media does not contain any antimicrobials, phenol red, or any other components that can cause cell stress and "masking effects" that may influence experimental results.

Directions for Use

Preparing the Media

1) Thaw medium overnight at 2 ºC to 8ºC. Alternatively, medium can be placed in a 25 ºC to 37 ºC water bath to thaw. Medium will warm to 37ºC in 10-30 mins depending on volume. Do not leave medium in water bath for extended periods of time. Mix thawed medium by gently inverting the unopened bottle. Do not shake or froth the medium. The thawed medium may be stored at 2 ºC to 8ºC for up to one month.

2) Spray closed containers with 70% EtOH, place in biosafety cabinet and allow to dry.

Feeding the Cells

Guidelines are for a T-25 Flask. Adjust volumes according to culture surface area.

1) Every other day, remove old medium and feed with 5mL of fresh FibroGRO™ Xeno-Free Human Fibroblast Expansion Medium.

2) Most cultures that are 50% confluent will be ready for passage the next day and should be fed with 7-8 mL of Xeno-Free medium.

Note: More than 10 mL of medium per 25 cm^2 of culture surface should not be used in order to ensure that gas diffusion will be sufficient to support the cell's requirements for oxygen.

Gas diffusion gradients through the culture medium to the cells are affected by the depth of the medium. The volumes of medium recommended in this table result in a range of depths between 2 mm and 5 mm, which is compatible with general recommendations, 10 mL being at the maximum depth allowable (5 mm).

Presentation

FibroGRO™ Xeno-Free Human Fibroblast Expansion medium is sold as a complete frozen medium and contains all the necessary growth factors and supplements to support fibroblast growth.

Components of FibroGRO™ Xeno-Free Human Fibroblast Expansion Medium

Component	Concentration
L-Glutamine	7.5 mM
Hydrocortisone Hemisuccinate	1.0 µg/mL
Ascorbic Acid	50 µg/mL
rh Insulin	5 µg/mL
rh FGF basic	5 ng/mL
rh EGF	5 ng/mL
rh TGF-β1	30 pg/mL
Human Serum	2%

Storage and Handling

Frozen medium should be stored at -20ºC until expiration date.

Thawed medium can be stored at 2 to 8ºC for up to 1 month. Multiple freeze/thaw cycles are not recommended

Please refer to product label for expiration date and further information.

Quality Control

Each lot is checked for growth promoting activity, adherence rate, and typical morphology. In addition, all lots of media have been tested for the absence of microbial contaminants (fungi and bacteria).

All materials used in the manufacture of this xeno free product have never come into contact with material of animal (non-human) origin and are not of animal (non-human) origin.

Parameters tested:

- Negative for growth of bacteria, fungi, and yeast
- pH variance: 7.4 ± 0.3
- Rate of proliferation
- Morphology
- Osmolality 275 ± 15 mOsm
- Endotoxin levels: < 2 EU/mL

SPECIES LEGEND: **H** Human **Ca** Canine **M** Mouse **R** Rat **Rb** Rabbit **B** Bovine **P** Porcine **WR** Most Common Vertebrates

Please visit www.millipore.com for additional product information and references.
Submit your published journal article, and earn credit toward future purchases. Visit www.millipore.com/publicationrewards to learn more!

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RELATED PRODUCTS

cat #	description
SCC058	FibroGRO™ Xeno-Free Human Foreskin Fibroblasts
SCC057	FibroGRO™ Inactivated Xeno-Free Human Foreskin Fibroblasts
SCR530 & SCR510	STEMCCA™ Constitutive Reprogramming Kit
SCR531 & SCR511	STEMCCA™ Cre-Excisable Reprogramming Kit
SCR544	Human STEMCCA™ Constitutive Reprogramming Kit
SCR545	Human STEMCCA™ Cre-Excisable Reprogramming Kit