

Instruction Manual

Product	Size	Catalog Number
hPSC-ECM DXF (20x)	2 ml	C-43070

Product Description

The hPSC-ECM DXF is a defined and xeno-free extracellular matrix of recombinant origin. It provides robust support for the efficient feeder-free expansion of undifferentiated human pluripotent stem cells (hPSC), e.g. human embryonic stem cells (hESC) and induced pluripotent stem cells (hiPS). The product is compatible with the defined and xeno-free PromoCell hPSC-GM DXF (C-28060) as well as with other established hPSC culture media.

The hPSC-ECM DXF is provided as a 20x stock and must be diluted to a working concentration before use. One 2 ml vial of hPSC-ECM DXF yields 40 ml of ready-to-use ECM solution sufficient to coat 400 cm² of culture surface, e.g. seven complete 6 well plates.

Instructions for Use

Thaw the frozen ECM stock solution at

room temperature or at 2 - 8°C. To coat the culture vessel with ECM, first dilute the thawed stock solution of the hPSC-ECM DXF 1:20 with Dulbecco's PBS, w/o Ca⁺⁺/Mg⁺⁺ (C-40232).

Use 100 µl per cm² of culture surface to coat the closed tissue culture vessel with the diluted ECM solution and leave for 2 hours at room temperature. Make sure that the ECM solution covers the complete vessel surface. If not to be used immediately, a thoroughly sealed vessel may be stored for up to 7 days at 2 - 8°C for later use. Do not allow the ECM-coated tissue culture surface to dry out. Aspirate the ECM solution just before seeding the cells.

Storage and Stability

Store at -20°C immediately after arrival. If stored properly, the product is stable until the expiry date stated on the label. Thawed hPSC-ECM DXF stock solution may be stored for up to 4 weeks

at 2 - 8°C protected from light. Diluted ECM working solution may be stored for up to 2 weeks at 2 - 8°C protected from light.

Quality Control

All lots of PromoCell hPSC-ECM DXF are subjected to comprehensive quality control tests. Each lot is routinely tested for coating efficiency, absence of cytotoxicity, promotion of cell attachment and support of undifferentiated growth of human iPS cells. Approved in-house lots are used as a reference.

In addition, all lots have been tested for the absence of microbial contaminants (fungi, bacteria).

Intended Use

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