Miltenyi Biotec

StemMACS™ Repro-Brew XF human

Order no. 130-132-985

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1. Description

This product is for research use only.

Components	**1×500 mL StemMACS Repro-Brew Basal Medium XF, human** **1×10 mL StemMACS Repro-Brew Supplement XF (50×), human**
Specifications	pH: 7.2–7.6 Osmolality: 300–330 mOsmol/kg
Quality control	Low endotoxin level by Limulus Amoebocyte Lysate (LAL) assay. Tested negative for mycoplasma. Validated for mRNA reprogramming of human fibroblasts in combination with the StemMACS iPSC mRNA Reprogramming Kit, human (# 130-132-990).
Storage	Upon arrival, store StemMACS Repro-Brew Basal Medium XF, human protected from light at 2–8 °C. Do not freeze. Store StemMACS Repro-Brew Supplement XF (50×), human at –20 °C. Avoid repeated freeze-thaw cycles. The expiration dates are indicated on the labels.

1.1 Background information

StemMACS Repro-Brew XF, human consists of carefully optimized medium and supplement that support efficient reprogramming into induced pluripotent stem cells (iPSCs). The xeno-free formulation allows reprogramming under feeder-free conditions.

1.2 Applications

- mRNA-based reprogramming of human fibroblasts into iPSCs

2. Protocol

▲ StemMACS Repro-Brew Basal Medium XF, human and StemMACS Repro-Brew Supplement XF, human are part of the StemMACS iPSC mRNA Reprogramming Kit, human. The detailed protocol is available at **www.miltenyibiotec.com/reprogramming-fibroblasts**.

▲ Before StemMACS Repro-Brew XF, human can be used in cell culture, the two components need to be mixed according to the following protocol to obtain the complete medium.

1. Thaw StemMACS Repro-Brew Supplement XF (50×), human at room temperature prior to use. If a precipitate is visible at the bottom of the vial, resuspend thoroughly or swirl the vial in a 37 °C waterbath for 1–2 minutes until the supplement is clear.
2. Prepare appropriate aliquots and store them at –20 °C. Avoid repeated freeze-thaw cycles.
3. To obtain the complete medium, dilute StemMACS Repro-Brew Supplement XF (50×), human 1:50 with StemMACS Repro-Brew Basal Medium XF, human, e.g., add 2 mL StemMACS Repro-Brew Supplement XF (50×), human to 98 mL StemMACS Repro-Brew Basal Medium XF, human. The complete medium can be used for up to 14 days when stored at 2–8 °C.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68, 51429 Bergisch Gladbach, Germany
Phone +49 2204 8306-0, Fax +49 2204 85197
macsde@miltenyi.com
www.miltenyibiotec.com

140-006-604.01

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