Miltenyi Biotec

StemMACS™ Endothel Cultivation Medium XF
human

Order no. 130-139-193

Contents

1. Description
   - 1.1 Background information
   - 1.2 Applications
2. Protocol
   - 2.1 Preparation of complete medium

1. Description

This product is for research use only.

Components	**125 mL StemMACS Endothel Cultivation Basal Medium XF, human** **5 mL StemMACS Endothel Cultivation Supplement XF (25×), human**
Specifications	Osmolality: 260–330 mOsmol/kg pH: 7.1–7.5
Capacity	For 30 passages. One passage corresponds to one well of a 6-well plate.
Storage	Upon arrival, store StemMACS Endothel Cultivation Medium XF, human protected from light at +2 to +8 °C. Store StemMACS Endothel Cultivation Supplement XF (25×), human protected from light at –20 °C. The expiration date is indicated on the label. Avoid repeated freeze-thaw cycles. Kit components should not be substituted or mixed with those from other kits or lots.

1.1 Background information

Endothelial cells differentiated from human pluripotent stem cells (hPSCs) are used as a major tool in the development of disease models, drug screening platforms, and cellular therapies. StemMACS Endothel Cultivation Medium XF, human is an optimised medium for the efficient cultivation and expansion of iPSC-derived endothelial cells.

1.2 Applications

- Maintenance and plating of endothelial cells derived from human PSC lines

2. Protocol

2.1 Preparation of complete medium

▲ Before StemMACS Endothel Cultivation Medium XF, human can be used in cell culture, the complete medium needs to be prepared by mixing the two kit components.

1. Thaw supplement at +2 to +8 °C overnight. Mix supplement properly. Thawed material must be used immediately. Avoid repeated freeze-thaw cycles.

   ▲ **Note:** If white precipitate occurs, pipette up and down the sample to dissolve it.

2. Mix 125 mL StemMACS Endothel Cultivation Basal Medium XF, human with 5 mL StemMACS Endothel Cultivation Supplement XF (25×), human. The medium is ready-to-use now.

   ▲ **Note:** (Optional) Antibiotic solutions might be added to prevent contamination, e.g. 100 U/mL penicillin and 100 µg/ mL streptomycin.

3. Use the complete medium within 3 weeks when stored at +2 to +8 °C.

Further protocols are available in the data sheet of the StemMACS EndothelDiff Kit XF, human at www.miltenyibiotec.com/130-139-194.

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.

Legal notices

Limited product warranty

Miltenyi Biotec B.V. & Co. KG and/or its affiliate(s) warrant this product to be free from material defects in workmanship and materials and to conform substantially with Miltenyi Biotec's published specifications for the product at the time of order, under normal use and conditions in accordance with its applicable documentation, for a period beginning on the date of delivery of the product by Miltenyi Biotec or its authorized distributor and ending on the expiration date of the product's applicable shelf life stated on the product label, packaging or documentation (as applicable) or, in the absence thereof, ONE (1) YEAR from date of delivery ("Product Warranty"). Miltenyi Biotec's Product Warranty is provided subject to the warranty terms as set forth in Miltenyi Biotec's General Terms and Conditions for the Sale of Products and Services available on Miltenyi Biotec's website at www.miltenyibiotec.com, as in effect at the time of order ("Product Warranty"). Additional terms may apply. BY USE OF THIS PRODUCT, THE CUSTOMER AGREES TO BE BOUND BY THESE TERMS.

THE CUSTOMER IS SOLELY RESPONSIBLE FOR DETERMINING IF A PRODUCT IS SUITABLE FOR CUSTOMER'S PARTICULAR PURPOSE AND APPLICATION METHODS.

Technical information

The technical information, data, protocols, and other statements provided by Miltenyi Biotec in this document are based on information, tests, or experience which Miltenyi Biotec believes to be reliable, but the accuracy or completeness of such information is not guaranteed. Such technical information and data are intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. Miltenyi Biotec shall not be liable for any technical or editorial errors or omissions contained herein.

All information and specifications are subject to change without prior notice. Please contact Miltenyi Biotec Technical Support or visit www.miltenyibiotec.com for the most up-to-date information on Miltenyi Biotec products.

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

140-007-411.01

Licenses

This product and/or its use may be covered by one or more pending or issued patents and/or may have certain limitations. Certain uses may be excluded by separate terms and conditions. Please contact your local Miltenyi Biotec representative or visit Miltenyi Biotec's website at www.miltenyibiotec.com for more information.

The purchase of this product conveys to the customer the non-transferable right to use the purchased amount of the product in research conducted by the customer (whether the customer is an academic or for-profit entity). This product may not be further sold. Additional terms and conditions (including the terms of a Limited Use Label License) may apply.

CUSTOMER'S USE OF THIS PRODUCT MAY REQUIRE ADDITIONAL LICENSES DEPENDING ON THE SPECIFIC APPLICATION. THE CUSTOMER IS SOLELY RESPONSIBLE FOR DETERMINING FOR ITSELF WHETHER IT HAS ALL APPROPRIATE LICENSES IN PLACE. Miltenyi Biotec provides no warranty that customer's use of this product does not and will not infringe intellectual property rights owned by a third party. BY USE OF THIS PRODUCT, THE CUSTOMER AGREES TO BE BOUND BY THESE TERMS.

Trademarks

MACS, the Miltenyi Biotec logo, and StemMACS are registered trademarks or trademarks of Miltenyi Biotec B.V. & Co. KG and/or its affiliates in various countries worldwide. All other trademarks mentioned in this publication are the property of their respective owners and are used for identification purposes only.

Copyright © 2025 Miltenyi Biotec and/or its affiliates. All rights reserved.