

mTeSR™1 Medium Without Select Factors

For Culture of Human ES and iPS Cells During Differentiation

Catalog #05896

500 mL Kit



Scientists Helping Scientists™ | www.stemcell.com

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

mTeSR™1 Medium Without Select Factors may be used to culture human embryonic stem (ES) cells and induced pluripotent stem (iPS) cells during differentiation. The addition of specific differentiation induction factors may be required depending on the desired application. This medium will not support the growth of undifferentiated cells.

Each lot of mTeSR™1 5X Supplement Without Select Factors is performance tested.

Product Information

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
mTeSR™1 Basal Medium	05851	400 mL	Store at 2 - 8°C.	Stable until expiry date (EXP) on label.
mTeSR™1 5X Supplement Without Select Factors	05892	100 mL	Store at -20°C.	Stable until expiry date (EXP) on label.

Preparation of Complete mTeSR™1 Medium Without Select Factors

Use sterile techniques to prepare complete mTeSR™1 Medium Without Select Factors (Basal Medium + 5X Supplement). The following example is for preparing 500 mL of complete Medium Without Select Factors. If preparing other volumes, adjust accordingly.

NOTE: Thaw supplements or complete medium at room temperature (15 - 25°C) or overnight at 2 - 8°C. Do not thaw in a 37°C water bath.

1. Thaw mTeSR™1 5X Supplement Without Select Factors and mix thoroughly.

Note: Once thawed, use supplement immediately or aliquot and store at -20°C for up to 3 months. Do not exceed the shelf life of the supplement. After thawing the aliquoted supplement, use immediately. Do not re-freeze.

2. Add 100 mL of mTeSR™1 5X Supplement Without Select Factors to 400 mL of mTeSR™1 Basal Medium. Mix thoroughly.

NOTE: If not used immediately, store complete mTeSR™1 Medium Without Select Factors at 2 - 8°C for up to 2 weeks. Alternatively, aliquot and store at -20°C for up to 6 months. Do not exceed the shelf life of the individual components. After thawing the aliquoted complete medium, use immediately or store at 2 - 8°C for up to 2 weeks. Do not re-freeze.

If prepared aseptically, complete mTeSR™1 Medium Without Select Factors is ready for use. If desired, the medium can be filtered using a 0.2 µm low-protein binding filter.

3. Optional: Add differentiation factors if desired. Mix thoroughly.

NOTE: Optimal storage conditions must be determined by the end user as the addition of differentiation induction factors may affect the stability of the medium.

References

Ludwig TE et al. (2006) Derivation of human embryonic stem cells in defined conditions. Nat Biotechnol 24(2): 185–7.

Ludwig TE et al. (2006) Feeder-independent culture of human embryonic stem cells. Nat Methods 3(8): 637–46.



This product was developed under license to intellectual property owned by WiCell™ Research Institute.

This product is sold for research use only (whether the buyer is an academic or for-profit entity) under a non-transferable, limited-use license. Purchase of this product does not include the right to sell, use or otherwise transfer this product for commercial purposes (i.e., any activity undertaken for consideration, such as use of this product for manufacturing, or resale of this product or any materials made using this product, or use of this product or any materials made using this product to provide services) or clinical use (i.e., administration of this product or any material using this product to humans) or the right to implant any material made using this product into an animal by, or in collaboration with, a for-profit entity, for purposes other than basic pre-clinical research applications (including without limitation teratoma assays) to validate the function of the cells. Purchasers wishing to use the product for purposes other than research use should contact Asterias Biotherapeutics, Inc. legal department at (650) 433-2900 or legal@asteriasbio.com. Purchasers who do not agree to the terms and conditions set forth above should return the product in acceptable conditions to the seller for a refund.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.

Copyright © 2015 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Inc. mTeSR is a trademark of WARF. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.