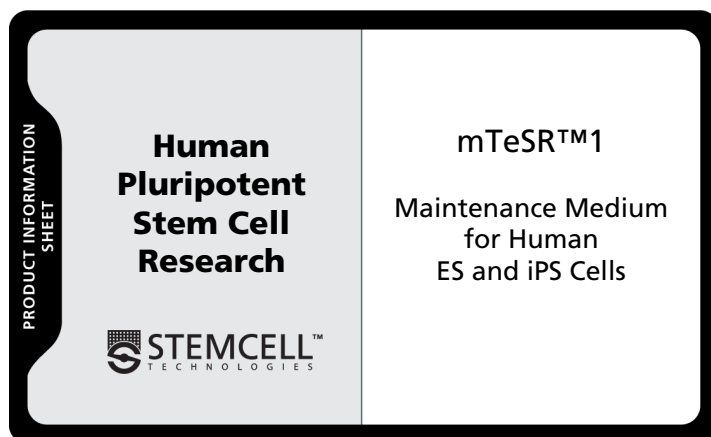


PRODUCT DESCRIPTIONS

mTeSR™1 medium is a complete, serum-free, defined formulation designed for the feeder-free maintenance and expansion of human embryonic stem (ES) cells^{1,2} and human induced pluripotent stem (iPS) cells³⁻⁵ in the undifferentiated state. Complete mTeSR™1 medium (Basal Medium + 5X Supplement) contains recombinant human basic fibroblast growth factor (rh bFGF) and recombinant human transforming growth factor β (rh TGF β). Addition of further growth factors is not required.

mTeSR™1 may be used with either Corning® Matrigel® hESC-Qualified Matrix (Corning® Catalog #354277) or Vitronectin XF™ (Catalog #07180, a matrix developed and manufactured by Primorigen Biosciences) as the culture matrix.

Each lot of mTeSR™1 5X Supplement is used to prepare complete mTeSR™1 medium and then performance tested in a culture assay using human pluripotent stem cells.



ORDERING INFORMATION

CATALOG #	PRODUCT NAME	SIZE	COMPONENTS
05850	mTeSR™1	500 mL	<ul style="list-style-type: none">mTeSR™1 Basal Medium (#05851); 400 mLmTeSR™1 5X Supplement (#05852); 100 mL
05857	mTeSR™1	1 L	<ul style="list-style-type: none">mTeSR™1 Basal Medium (#05871); 800 mLmTeSR™1 5X Supplement (#05852); 2 x 100 mL
05870	mTeSR™1	10 x 500 mL	<ul style="list-style-type: none">mTeSR™1 Basal Medium (#05851); 10 x 400 mLmTeSR™1 5X Supplement (#05852); 10 x 100 mL
05875	mTeSR™1	25 x 500 mL	<ul style="list-style-type: none">mTeSR™1 Basal Medium (#05851); 25 x 400 mLmTeSR™1 5X Supplement (#05852); 25 x 100 mL

COMPONENTS

COMPONENT NAME	STORAGE	SHELF LIFE
mTeSR™1 Basal Medium	Store at 2 - 8°C.	Stable until expiry date (EXP) on label.
mTeSR™1 5X Supplement	Store at -20°C.	Stable until expiry date (EXP) on label.

This product contains potentially hazardous material. Please refer to the Material Safety Data Sheet (MSDS).

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DOCUMENT #29135

PREPARATION OF COMPLETE mTeSR™1 MEDIUM

Use sterile techniques to prepare complete mTeSR™1 medium (Basal Medium + 5X Supplement). The following example is for preparing 500 mL of complete medium. If preparing 1 L of complete medium, add 2 x 100 mL of 5X Supplement to 800 mL of Basal Medium. 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 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 to 400 mL of mTeSR™1 Basal Medium. Mix thoroughly.

Note: If not used immediately, store complete mTeSR™1 medium 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 is ready for use but the medium can also be filtered using a 0.2 µm low-protein binding filter, if desired.

DIRECTIONS FOR USE

For complete instructions on how to maintain human ES and iPS cells in mTeSR™1, refer to the Technical Manual: Maintenance of Human Pluripotent Stem Cells in mTeSR™1 (Document #29106) available on our website at www.stemcell.com or contact us to request a copy.

REFERENCES

1. Ludwig TE, et al. Derivation of human embryonic stem cells in defined conditions. *Nat Biotechnol* 24(2): 185-187, 2006
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4. Masaki H, et al. Heterogeneity of pluripotent marker gene expression in colonies generated in human iPS cell induction culture. *Stem Cell Res* 1(2): 105-115, 2008
5. Sun N, et al. Feeder-free derivation of induced pluripotent stem cells from adult human adipose stem cells. *PNAS* 106(37): 15720-15725, 2009



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