

mTeSR™1 Medium Without Select Factors

For culture of human ES and iPS cells during differentiation

Catalog #05896

500 mL Kit



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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	85851	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 - 0.22 µm low protein binding polyethersulfone (PES) filter unit (e.g. Fisher 09-741-04 [0.2 µm, 250 mL]; Fisher SCGP00525 [0.22 µm, 50 mL]).

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.



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