

PRODUCT DESCRIPTIONS

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.



ORDERING INFORMATION

CATALOG #	PRODUCT NAME	SIZE	COMPONENTS
05896	mTeSR™1 without Select Factors	500 mL	<ul style="list-style-type: none"><li>mTeSR™1 Basal Medium (#05851); 400 mL</li><li>mTeSR™1 5X Supplement without Select Factors (#05892); 100 mL</li></ul>

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 without Select Factors	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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FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.



## 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. 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 but the medium can also be filtered using a 0.2 µm low-protein binding filter, if desired.*

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

1. Ludwig TE, et al. Derivation of human embryonic stem cells in defined conditions. Nat Biotechnol 24(2): 185-187, 2006
2. Ludwig TE, et al. Feeder-independent culture of human embryonic stem cells. Nat Methods 3(8): 637-646, 2006



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