

TeSR™2

Xeno-Free, Defined, Feeder-Free Medium for Maintenance of Undifferentiated Human ES and iPS Cells

Catalog #05860 500 mL Kit
Catalog #05880 10 x 500 mL Kit



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Product Description

TeSR™2 is a complete, xeno-free, serum-free, defined formulation designed for the feeder-free maintenance and expansion of human embryonic stem (ES) and induced pluripotent stem (iPS) cells in the undifferentiated state.¹ Complete TeSR™2 (Basal Medium + 5X Supplement + 250X 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.

TeSR™2 may be used with 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 TeSR™2 5X Supplement and 250X Supplement is used to prepare complete TeSR™2 medium and then performance tested in a culture assay using human pluripotent stem cells.

Product Information

PRODUCT NAME	CATALOG #	SIZE	COMPONENTS
TeSR™2	05860	500 mL	<ul style="list-style-type: none">• TeSR™2 Basal Medium (400 mL)• TeSR™2 5X Supplement (100 mL)• TeSR™2 250X Supplement (2 mL)
TeSR™2	05880	10 x 500 mL	<ul style="list-style-type: none">• TeSR™2 Basal Medium (10 x 400 mL)• TeSR™2 5X Supplement (10 x 100 mL)• TeSR™2 250X Supplement (10 x 2 mL)

Component Storage and Stability

The following components are sold as complete kits (Catalog #05860 and #05880) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	STORAGE	SHELF LIFE
TeSR™2 Basal Medium	05861	Store at 2 - 8°C.	Stable until expiry date (EXP) on label.
TeSR™2 5X Supplement	05862	Store at -20°C.	Stable until expiry date (EXP) on label.
TeSR™2 250X Supplement	05863	Store at -20°C.	Stable until expiry date (EXP) on label.

Please refer to the Safety Data Sheet (SDS) for hazard information.

Preparation of Complete TeSR™2 Medium

Use sterile techniques to prepare complete TeSR™2 medium (Basal Medium + 5X Supplement + 250X 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 TeSR™2 5X Supplement and TeSR™2 250X Supplement. Mix each supplement thoroughly.

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

2. Add 100 mL of TeSR™2 5X Supplement and 2 mL of TeSR™2 250X Supplement to 400 mL of TeSR™2 Basal Medium. Mix thoroughly.

NOTE: If not used immediately, store complete TeSR™2 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 TeSR™2 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 TeSR™2, refer to the Technical Manual: Maintenance of Human Pluripotent Stem Cells in TeSR™2 (Document #28210) available on our website at www.stemcell.com or contact us to request a copy.

References

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



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