

# TeSR™-E5

Defined, serum-free, xeno-free medium for pluripotent stem cells

Catalog #05916

500 mL Kit



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## Product Description

TeSR™-E5 is a defined, serum- and xeno-free medium that is based on the formulation of TeSR™-E8™, but does not contain transforming growth factor  $\beta$  (TGF- $\beta$ ), basic fibroblast growth factor (bFGF), or insulin. It may be used as a basal medium for differentiation of human embryonic stem (ES) cells and induced pluripotent stem (iPS) cells, or other applications where removal of the above cytokines and insulin is desirable.

## Product Information

The following components are sold as a complete kit (Catalog #05916) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
TeSR™-E5/E6 Basal Medium	05947	475 mL	Store at 2 - 8°C.	Stable for 18 months from date of manufacture (MFG) on label.
TeSR™-E5 20X Supplement	05918	25 mL	Store at -20°C.	Stable for 18 months from date of manufacture (MFG) on label.

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

## Preparation of Complete TeSR™-E5 Medium

Use sterile technique to prepare complete TeSR™-E5 medium (Basal Medium + 20X Supplement). The following example is for preparing 500 mL of complete medium. If preparing other volumes, adjust accordingly.

1. Thaw 20X Supplement at room temperature (15 - 25°C) or overnight at 2 - 8°C. Mix thoroughly.

NOTE: Once thawed, use within 1 day or aliquot and store at -20°C. Do not exceed the shelf life of the supplement. After thawing the aliquots, use immediately. Do not re-freeze.

2. Add 25 mL of 20X Supplement to 475 mL of Basal Medium. Mix thoroughly.

NOTE: If prepared using sterile technique, complete TeSR™-E5 medium is ready for use and does not require filtering. If not used immediately, store complete TeSR™-E5 medium at 2 - 8°C for up to 2 weeks or at -20°C for up to 1 month. Thaw complete TeSR™-E5 medium at room temperature or overnight at 2 - 8°C. Do not re-freeze.

## Directions for Use

TeSR™-E5 medium can be used as a basal medium for a variety of human ES and iPS cell protocols. For example, it can be used as a basal medium for differentiation protocols, screening assays, and other applications where TGF- $\beta$ , bFGF, and insulin are not desired. Customers should add appropriate cytokines and growth factors for their specific applications. For applications where insulin is required, TeSR™-E6 (Catalog #05946) may be used.

TeSR™-E5 is not suitable for maintenance of human ES and iPS cells, or reprogramming to iPS cells. Fully optimized media should be used for maintenance of human ES and iPS cells (e.g. mTeSR™1, mTeSR™ Plus, TeSR™-AOF, TeSR™-E8™, or TeSR™2) and reprogramming to human iPS cells (e.g. TeSR™-E7™ or ReproTeSR™). For complete instructions on using these media, refer to the corresponding documents listed in the table on page 2. Documents are available at [www.stemcell.com](http://www.stemcell.com) or contact us to request a copy.

PRODUCT	CATALOG #	DOCUMENT #
Maintenance of human ES/iPS cells		
mTeSR™1	85850	10000005505
mTeSR™ Plus	100-0276	10000007757
TeSR™-AOF	100-0401	10000008160
TeSR™-E8™	05990	10000005516
TeSR™2	05860	10000005573
Reprogramming		
TeSR™-E7™	05914	10000003499
ReproTeSR™	05926	10000003501



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