

PRODUCT DESCRIPTION

TeSR™-E8™ is a highly defined feeder-free culture medium for human embryonic stem (ES) cells and human induced pluripotent stem (iPS) cells. It is based on the E8 formulation¹⁻² published by Dr. James Thomson (University of Wisconsin-Madison), the lead researcher behind the mTeSR™1 formula³⁻⁴. TeSR™-E8™ contains a minimized set of the components required for maintenance of human ES and iPS cells, providing a simpler medium for the culture of pluripotent stem cells. This medium is low in protein compared to other conventional feeder-free culture medium such as mTeSR™1 (Catalog #05850) and TeSR™2 (Catalog #05860).

RECOMMENDED FOR

TeSR™-E8™ is ideal for maintaining human ES and iPS cells in a low protein, feeder-free environment. This medium may be used with either Vitronectin XF™ (Catalog #07180) or BD Matrigel™ hESC-qualified matrix (BD Catalog #354277) as the culture matrix.

COMPONENTS

05941 TeSR™-E8™ Basal Medium	474 mL
05942 TeSR™-E8™ 20X Supplement	25 mL
05943 TeSR™-E8™ 500X Supplement	1 mL
05945 TeSR™-E8™ Complete Medium Bottle	bottle

These products have been aseptically manufactured using tightly controlled processes and extensively pre-screened components. Each batch is sterility tested.

STABILITY AND STORAGE

Record the LOT number for each component.
Do not aliquot the components.

05941 TeSR™-E8™ Basal Medium

Product stable at 2 - 8°C for 1 year from date of manufacture as indicated on label.

05942 TeSR™-E8™ 20X Supplement

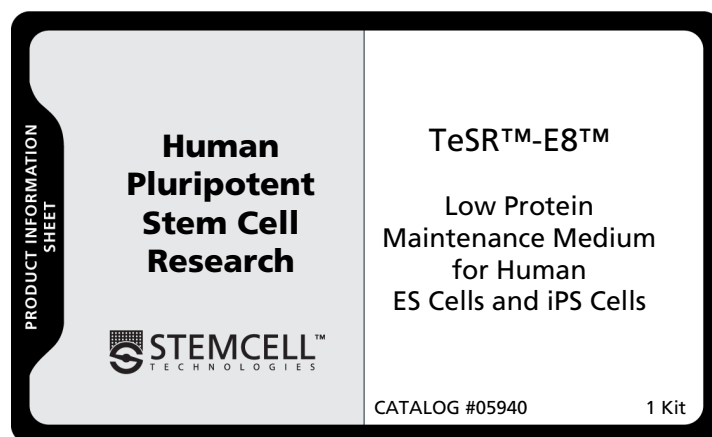
Product stable at -20°C for 1 year from date of manufacture as indicated on label.

05943 TeSR™-E8™ 500X Supplement

Product stable at -20°C for 1 year from date of manufacture as indicated on label.

REFERENCES

1. Chen G, et al. Chemically defined conditions for human iPSC derivation and culture. *Nat Methods* 8(5): 424-429, 2011
2. Beers J, et al. Passaging and colony expansion of human pluripotent stem cells by enzyme-free dissociation in chemically defined culture conditions. *Nat Protoc* 7(11): 2029-40, 2012
3. Ludwig TE, et al. Derivation of human embryonic stem cells in defined conditions. *Nat Biotechnol* 24(2): 185-187, 2006
4. Ludwig TE, et al. Feeder-independent culture of human embryonic stem cells. *Nat Methods* 3(8): 637-646, 2006



PREPARATION OF TeSR™-E8™ MEDIUM

Use sterile techniques when preparing complete TeSR™-E8™ medium. Instructions given in this section are for preparing 500 mL of TeSR™-E8™ medium.

Prepare complete TeSR™-E8™ medium in the TeSR™-E8™ Complete Medium Bottle. Do not use other containers. Store complete TeSR™-E8™ medium at 2 - 8°C and use within 2 weeks.

1. Thaw TeSR™-E8™ 20X Supplement and TeSR™-E8™ 500X Supplement at room temperature (15 - 25°C) or at 2 - 8°C just prior to use. Do not thaw supplements in a 37°C water bath.
2. Add the entire 474 mL of TeSR™-E8™ Basal Medium to the TeSR™-E8™ Complete Medium Bottle.
3. Pipette the entire 25 mL of thawed TeSR™-E8™ 20X Supplement and the entire 1 mL of thawed TeSR™-E8™ 500X Supplement to the TeSR™-E8™ Complete Medium Bottle, for a total volume of 500 mL. Mix well.

If prepared using sterile techniques, complete TeSR™-E8™ medium is ready for use and does not require filtering.

Complete TeSR™-E8™ medium (freshly prepared) may be stored at -20°C in the TeSR™-E8™ Complete Medium Bottle or alternatively aliquots can be stored in 50 mL polypropylene tubes (e.g. BD Catalog #352070) or Corning Square Polycarbonate Storage Bottles (Corning Catalog #431430 [125 mL]; #431431 [250 mL]). Store frozen medium for up to 1 month. Once thawed, use medium within 1 week. Do not refreeze medium.

DIRECTIONS FOR USE

For complete instructions on how to use TeSR™-E8™ medium see the Technical Manual: Maintenance of Human Pluripotent Stem Cells in TeSR™-E8™ (Document #29267) available on our website at www.stemcell.com or contact us to request a copy.



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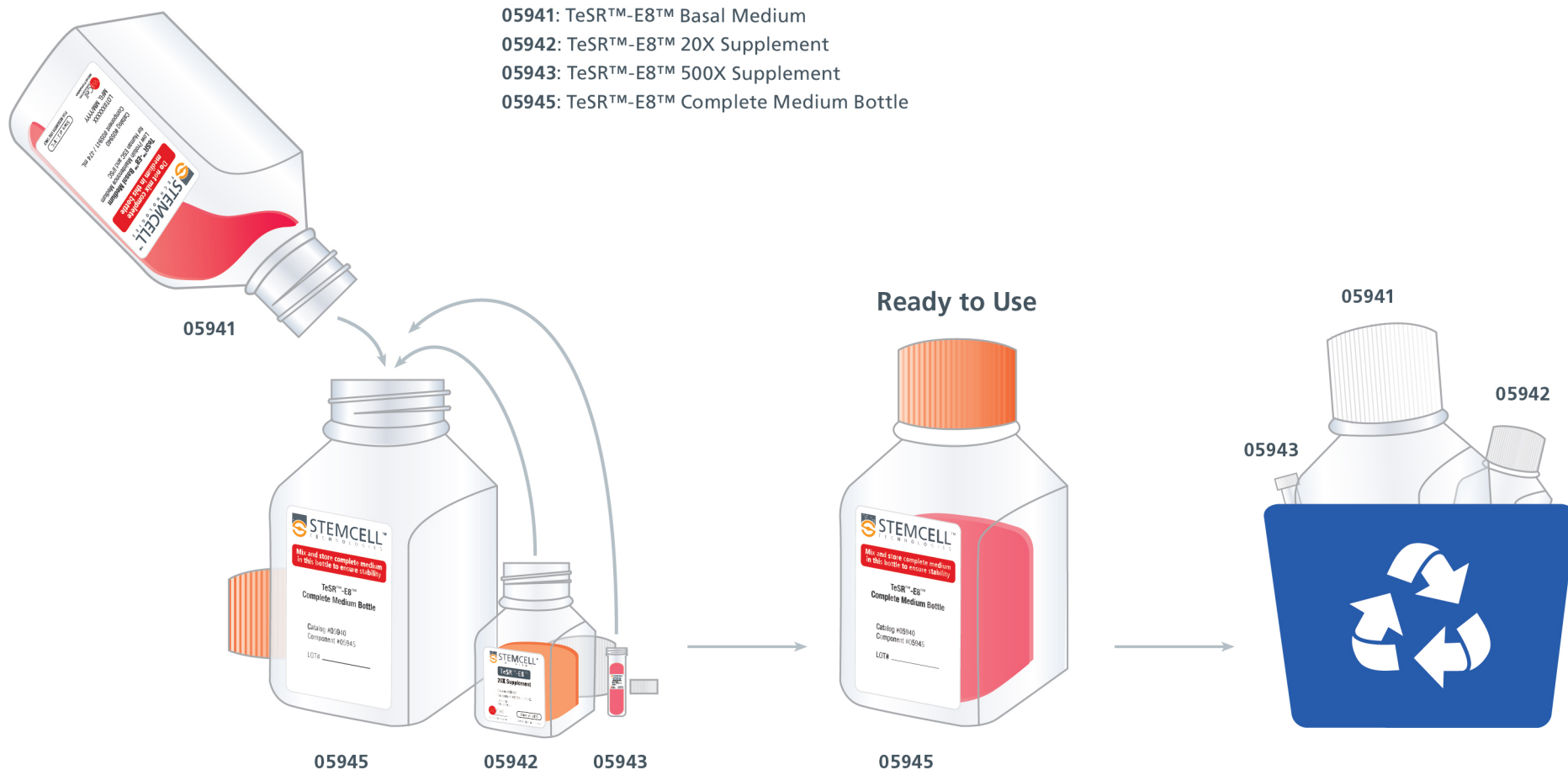
TeSR™-E8™

Mixing Instructions



Kit Contains:

- 05941: TeSR™-E8™ Basal Medium
- 05942: TeSR™-E8™ 20X Supplement
- 05943: TeSR™-E8™ 500X Supplement
- 05945: TeSR™-E8™ Complete Medium Bottle



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