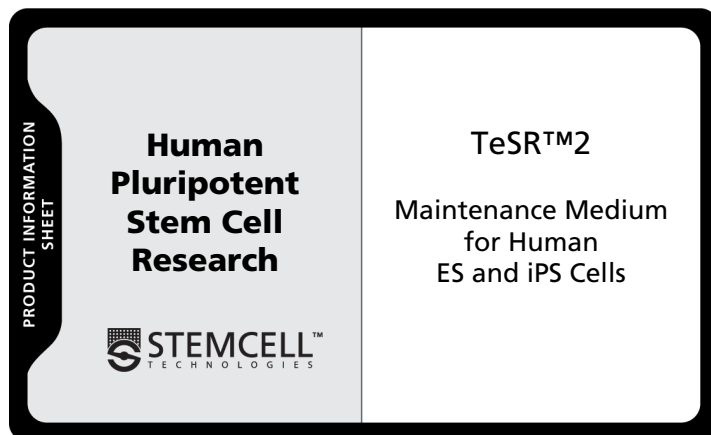


## PRODUCT DESCRIPTIONS

TeSR™2 is a complete, animal protein-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.<sup>1</sup> Complete TeSR™2 (Basal Medium + 5X Supplement + 250X Supplement) contains recombinant human basic fibroblast growth factor (rh bFGF) and recombinant human transforming growth factor  $\beta$  (rh TGF $\beta$ ). Addition of further growth factors is not required.

TeSR™2 may be used with Corning® Matrigel® hESC-Qualified Matrix (Corning® Catalog #354277) 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.



## ORDERING INFORMATION

CATALOG #	PRODUCT NAME	SIZE	COMPONENTS
05860	TeSR™2	500 mL	<ul style="list-style-type: none"><li>TeSR™2 Basal Medium (#05861); 400 mL</li><li>TeSR™2 5X Supplement (#05862); 100 mL</li><li>TeSR™2 250X Supplement (#05863); 2 mL</li></ul>
05880	TeSR™2	10 x 500 mL	<ul style="list-style-type: none"><li>TeSR™2 Basal Medium (#05861); 10 x 400 mL</li><li>TeSR™2 5X Supplement (#05862); 10 x 100 mL</li><li>TeSR™2 250X Supplement (#05863); 10 x 2 mL</li></ul>

## COMPONENTS

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

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.  
FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.



TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM • FOR GLOBAL CONTACT DETAILS VISIT WWW.STEMCELL.COM

VERSION 1.2.1  
DOCUMENT #29930

## 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](http://www.stemcell.com) or contact us to request a copy.

## REFERENCES

1. Ludwig TE, et al. Derivation of human embryonic stem cells in defined conditions. *Nat Biotechnol* 24(2): 185-187, 2006



This product was developed under license to intellectual property owned by WiCell™ Research Institute.

This product is sold for research use only (whether the buyer is an academic or for-profit entity) under a non-transferable, limited-use license. Purchase of this product does not include the right to sell, use or otherwise transfer this product for commercial purposes (i.e., any activity undertaken for consideration, such as use of this product for manufacturing, or resale of this product or any materials made using this product, or use of this product or any materials made using this product to provide services) or clinical use (i.e., administration of this product or any material using this product to humans) or the right to implant any material made using this product into an animal by, or in collaboration with, a for-profit entity, for purposes other than basic pre-clinical research applications (including without limitation teratoma assays) to validate the function of the cells. Purchasers wishing to use the product for purposes other than research use should contact Asterias Biotherapeutics, Inc. legal department at (650) 433-2900 or [legal@asteriasbio.com](mailto:legal@asteriasbio.com). Purchasers who do not agree to the terms and conditions set forth above should return the product in acceptable conditions to the seller for a refund.

Copyright © 2014 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Inc. TeSR is a trademark of WARF. Matrigel is a registered trademark of Corning Incorporated. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.  
FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.



TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM • FOR GLOBAL CONTACT DETAILS VISIT [WWW.STEMCELL.COM](http://WWW.STEMCELL.COM)

VERSION 1.2.1  
DOCUMENT #29930