



3914 Del Amo Blvd  
SUITE 901  
TORRANCE, CA 90503  
www.celprogen.com

Phone: 310 542 8822  
Fax: 310 542 8028  
Email: info@celprogen.com  
stemcells@celprogen.com

## DATA SHEET

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| <b>Product name:</b> | XenoFree Serum Substitute [XFS <sup>2</sup> ]- 500ml |
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**Catalog number:** MX7777-155

**Description:** Celprogen's XenoFree Serum Substitute [XFS<sup>2</sup>], when formulated as a complete medium, enables the growth, proliferation, differentiation, maintaining undifferentiated status of stem cells, expansion of human embryonic stem cells (hESC), human induced pluripotent cells (hiPCS) in a cell culture medium containing only human-derived or human recombinant proteins, to facilitate the transition of hESC and hiPCS basic science research from the bench to clinic studies. The XFS<sup>2</sup> can be utilized with human primary cell cultures at 1% to promote the same growth profiles equivalent to utilizing 10% fetal bovine serum.

The XFS<sup>2</sup> product line enables you to reduce your burden in qualifying reagents during your transition from basic science research applications to clinical applications. Formulated for use in a 5% CO<sub>2</sub> humidified incubator.

**Storage Conditions:** -20 °C

**Tissue culture:** The XenoFree Serum Substitute [XFS<sup>2</sup>] was tested and optimized with Human Stem Cells, Primary Cell Culture, hESC, induced pluripotent cells, human CSCs, CTCs and progenitor cells. The cell types were optimized on their respective extra-cellular matrix and media combinations in a 37°C humidified incubator with 5% CO<sub>2</sub>.

**Product Orders:** Before submitting an order you will be asked to read and accept the terms and conditions of Celprogen's Material Transfer Agreement (MTA).

**Permits & Forms:** In addition to the MTA mentioned above, other CELPROGEN and/or regulatory permits may be required for the transfer of this CELPROGEN material. Anyone purchasing CELPROGEN material is ultimately responsible for obtaining the permits.

**Notices &  
Disclaimers:**

*CELPROGEN products are intended for laboratory research purposes only. They are not intended for use in humans.* Product established and manufactured by CELPROGEN Inc., for Research Use Only. This product is not for re-sale or may not be transferred to third party prior to written request and approval by CELPROGEN Inc.

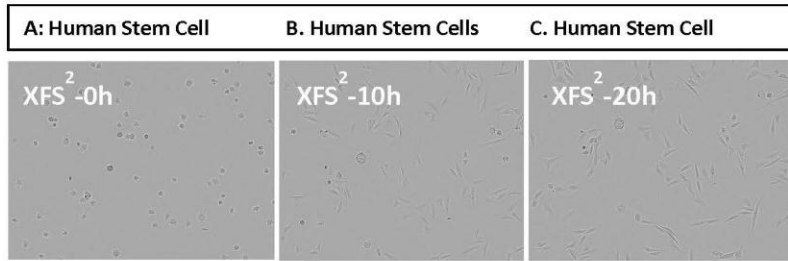


Figure 1: The above Human Epithelial Stem cells were cultured in complete Xeno-free culture conditions with 1% XFS<sup>2</sup>, the growth was captured with ESSEN bioscience ,real time imager, IncuCyte ZOOM™ and their proliferation rates captured in the graph below.

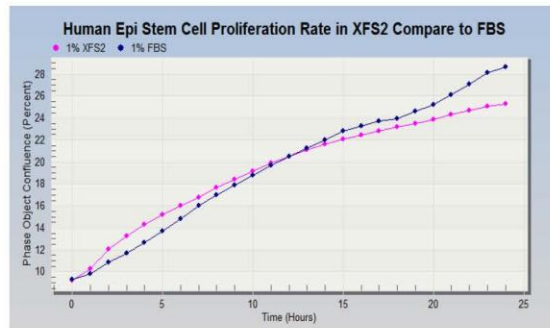


Figure 2: Human Epithelial Stemcells cultured in 1% XFS<sup>2</sup> and 1% Fetal Bovine Serum conditions, and their growth was captured with ESSEN bioscience ,real time imager, IncuCyte ZOOM™.