# **HFS**daFREE™ KIT

A 3-COMPONENT, CHEMICALLY-DEFINED ANIMAL ORIGIN-FREE (cdAOF) CELL CULTURE SUPPLEMENT SYSTEM FOR HUMAN FIBROBLASTS

A V A N T B I O . C O M Phone: +1 206-823-5895

## **HFS**daFREE

**DEFINED ANIMAL ORIGIN-FREE** 

DOM: 2.5 mls 100X Sterile Concentrate Store at -20°C. Thaw at Room Temp. Avoid Contact or Ingestion. For R&D Use Only.

Consult Product Insert For Proper Usage & Handling.

Human Fibroblast **Growth Enhancer** cdAOF PRODUCT AVB02HFS 0.5 mls 1000X Sterile Concentrate Store Below 8°C For R&D Use Only Avoid Contact or Ingestion Product AVBP-010

DOM: (206) 823-5895 AVANTBIO. COM



#### **DESCRIPTION AND CONTENTS**

- AvantBio Products: HFSdaFREE (product no. AVB02HFS), HFGE (product no. AVBP-010) and HFGE2 (product no. AVBP-040)
- HFSdaFREE 5 ml Vol ume, 100X concentrated cdAOF supplement. Sterilized by filtration.
- HFGE 0.5 ml Volume, 1000X concentrated cdAOF Supplement. Sterilized by filtration.
- HFGE2 1.0 ml Volume, 500X concentrated cdAOF Supplement. Sterilized by filtration.
- Shipped and stored frozen (-80° C or -20° C)
- Shelf life: 18 months from date of manufacture when stored at -20 °C.

LOT:

For laboratory usage only. Not to be used for the apeutic or diagnostic purposes in humans or animals. Use good laboratory practices when handling. Avoid contact and do not ingest. Consult SDS.

#### **DIRECTIONS FOR USE**

- 1. To efficiently support the propagation of human fibroblast primary and post-primary cell cultures in the cdAOF environment, AvantBio recommends that HFSdaFREE, HFGE and HFGE2 be used to supplement a 50/50 mixture of EpiLife® (ThrermoFisher Scientific, cat. no. MEPI500CA) and Human Fibroblast Expansion Basal Medium (ThrermoFisher Scientific, cat. no. M106500).
- 2. Thaw supplements at room temperature. Use immediately, or store for up to 6 hours at 4° C before use. Do not leave thawed product at 37 °C, or at room temperature for longer than 20 minutes. Do not re-freeze. Wipe vial clean with 70% isopropyl alcohol before use. HFSdaFREE, HFGE and HFGE2 quantities (volumes) are intended to supplement 500 mls of a 50/50 mixture of EpiLife® / Human Fibroblast Expansion Basal Medium<sup>®</sup>. Use entire contents of each vial (i.e. rinse vial 1 x with basal medium).
- 3. Pre-coating the cell culture surface (substratum) with animal origin-free recombinant human collagen-1 (at 5 ug/cm<sup>2</sup>), or other animal-sourced collagen-1 (e.g. human / bovine), can enhance cell survival, cell proliferation and cell replicative lifespan.
- 4. For both primary culture and post-primary serial propagation, pre-coating the cell culture surface (substratum) with collagen-1 is required for efficient propagation. Animal origin free recombinant human collagen-1 can be purchased by request from Collplant Inc. (e.g. Collplant cat. No: W1019-30ml). Also see: http://testing.collplant.com/collage\_brochure.pdf and https://collplant.com/ ).

- 5. Additionally, Corning® CellBIND® cell culture-ware <a href="may partially replace the requirement for collagen-1 pre-coating">may partially replace the requirement for collagen-1 pre-coating</a> (see: <a href="www.corning.com/worldwide/en/products/life-sciences/products/surfaces/cell-bind.html">www.corning.com/worldwide/en/products/life-sciences/products/surfaces/cell-bind.html</a>). CellBIND® has been successfully utilized to propagate post-primary human fibroblasts under cdAOF conditions, but at a reduced proliferation rate compared to fibroblasts cultured in the presence of collagen-1 pre-coating. <a href="mailto:CellBIND®">CellBIND®</a> has not been tested on primary human fibroblast cultures.
- 6. Prior to plating fibroblasts into primary culture, make sure that the cells (cell pellet) are washed essentially free of residual collagenase. Residual collagenase transferred to the primary cell culture can degrade the collagen-1 substratum and inhibit plating of the primary fibroblasts.
- 7. TrypLE<sup>tm</sup> Select 1X (ThermoFisher Scientific: cat. no. 12563029) is recommended for cell dissociation during post-primary serial propagation.

### **AVANTBIO PRODUCT LIMITED USE AGREEMENT**

By acceptance of AvantBio's products (e.g. CRYOVIVE<sup>TM</sup>, HKSdaFREE<sup>TM</sup>, HKGE<sup>TM</sup>, HKGE2<sup>TM</sup>, HKGE3<sup>TM</sup>, HKGE3<sup>TM</sup>, HFSdaFREE<sup>TM</sup>, HFSdaFREE<sup>TM</sup>, HFGdaFREE<sup>TM</sup>, HFGdaFREE<sup>TM</sup>, HFGdaFREE<sup>TM</sup>, HFGdaFREE<sup>TM</sup>, HFGdaFREE<sup>TM</sup>, HFGGaFREE<sup>TM</sup>, HFGGaFREE<sup>TM</sup>, HFGdaFREE<sup>TM</sup>, HFGdaFREE<sup>T</sup>

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AvantBio Corporation, PO Box 5820, Lynnwood, WA 98046 USA. Phone +1 (206) 823-5895

Email: info@avantbio.com Also Visit: www.avantbio.com