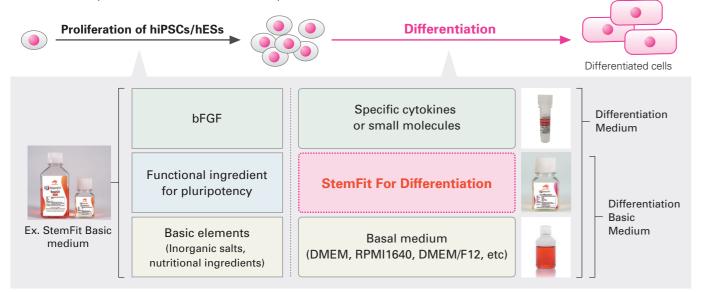


Product Information: StemFit For Differentiation

1. Product Description

StemFit For Differentiation (Diff.) is chemically defined & animal-origin free (CD-AOF) supplement for differentiation of human ES and iPS cells. StemFit For Diff. combined with StemFit medium for the hPSCs expansion can enable clinical applications of hPSC-derived cells/tissues by providing the CD-AOF culture systems for both hPSCs expansion and differentiation.

StemFit For Diff. is provided as a 5xconcentrate and is intended to be used with basal medium (DMEM/F12, RPMI1640, DMEM etc.) and a variety of different induction factors or cytokines.



2. Materials Provided

Volume	Storage
100 ml	Store at below -20 °C

3. Prepare Differentiation Basic Medium

StemFit For Diff. is provided frozen and should be stored at below -20 °C until use. Use sterile techniques to prepare differentiation medium as follow.

- 1) Before use, thaw the frozen StemFit For Diff. with occasionally mixing at room temperature (15-25 °C) or overnight at 4°C. CAUTION: Do not thaw StemFit for Diff. at 37 °C, as it accelerates the degradation of medium
- 2) Add 100 mL of StemFit For Diff. (5X) to 400 mL basal medium (DMEM/F12, RPMI1640, DMEM etc.) and mix thoroughly to make differentiation basic medium. If precipitations are observed, keep the bottle at room temperature and dissolve them. Optional: StemFit For Diff. and differentiation basic medium may be aseptically aliquoted and stored at below -20 °C. Once thawed, they may be stored at 2-8 °C for up to 2 weeks (Do not re-freeze.). We recommend storing the medium protected from light.
- 3) To differentiate each lineage, induction factors or cytokines can be added as specified by differentiation protocols.
- 4) Before use, warm aliquots to room temperature and use immediately.

4. Contact the following department for product information:

Amino Acids Dept., AminoScience Division, AJINOMOTO CO., INC.

1-15-1 Kyobashi, Chuo-ku, Tokyo 104-8315, Japan

E-mail: stemfit@asv.ajinomoto.com

For Research Use Only. Not Intended For Human or Animal Diagnostic or Therapeutic Uses.

Eat Well. Live Well. **MIINOMOTO**

For further information, please contact here. **Stemfit@asv.ajinomoto.com**

AJINOMOTO CO., INC. AminoScience Division https://www.ajitrade.com/stemfit/ 15-1, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8315, Japan



The Next Generation Supplement



Chemically Defined & Animal-Origin Free Supplement

StemFit For Differentiation is

Free of undefined components (Serum, Human-derived

component). Chemically defined composition minimizes

lot-to-lot variation and enables consistent cell differentiation.

Enables consistent cell differentiation

- chemically defined & animal component-free formulation
- enables differentiation of human ES cells and iPS cells.

High Safety

High Consistency



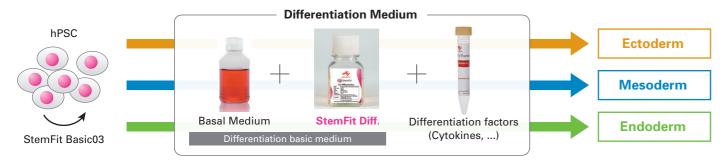
Animal-origin free composition



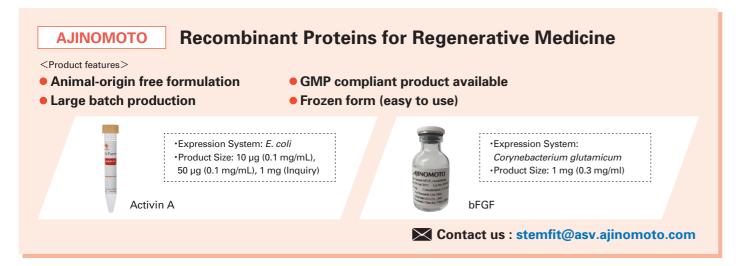
Free of animal- and human-derived components. Animal-origin free composition minimizes risk of immunogenic contamination.

StemFit For Differentiation is

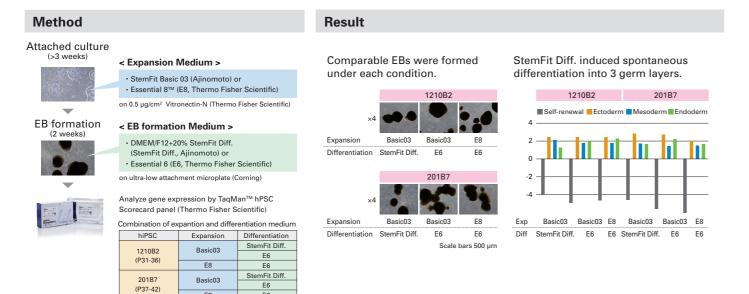
chemically defined & animal component-free supplement for differentiation of human ES and iPS cells to multiple lineages. It can be used with a variety of different induction factors or cytokines to support differentiation along ectoderm, mesoderm and endoderm lineages.



StemFit Diff. combined with StemFit medium for the human PSCs expansion medium, can enable clinical applications of hPSC-derived cells/tissues by providing the CD-AOF culture systems for both hPSCs expansion and differentiation. StemFit Diff. is provided as a 5xconcentrate and is intended to be used with basal medium (DMEM/F12, RPMI1640, DMEM etc.) and a variety of different induction factors or cytokines.



Stem Fit For Differentiation can support spontaneous differentiation of hiPSCs via EB formation



StemFit For Differentiation is useful for lineage-specific differentiation in replacement of serum-free supplement

