

StemBlast® Supplement 10X

10 mL, 50 mL, 100 mL

(FP-6042)

Introduction

StemBlast® is a sterile, fully defined supplement for the propagation of embryonic stem cells (hESC) or induced pluripotent stem cells (IPS).

- StemBlast® is a humanized formulation with human origin components and recombinant proteins
- The media does not require the presence of, or prior exposure to feeder cells.
- Basal media is included in the package for reconstitution of StemBlast® media
- No additional growth factors are needed in combination with the supplement.
- Matrigel™ or equivalent substrates for cell culture can be used in combination with StemBlast® media
- Enzymatic dissociation and passaging of stem cells is recommended using collagenase type IV

Stability and Storage

- Store frozen supplement at -20°C for 6 months from date of manufacture.
- Store basal media at 4-8°C for 1 year from date of manufacture
- If thawed and reconstituted, StemBlast® media can be stored at 4-8°C and must be used within 7 days.

Additional Parts Included:

The StemBlast® supplement is designed to be used with StemBlast® basal media, included in the package.

Instructions for Use:

1. Use aseptic techniques to manipulate and reconstitute the media
2. Thaw 1 bottle of StemBlast® 10X (10, 50 or 100 mL) at 4°C, room temperature, or in a 37°C dry or water bath. Do not fully immerse the frozen bottle in the water bath; keep the neck and closure dry. Do not warm the supplement longer than needed to thaw the contents of the bottle.

3. Open the bottle of the provided basal media (90 mL, 450 mL or 900 mL)
4. Transfer the StemBlast® supplement into the StemBlast® basal media bottle using a serological pipette.
5. Close the bottle and mix by swirling. Avoid inverting the bottle.
6. If handled with proper aseptic technique further filtration is not necessary
7. Label the bottle with the date of reconstitution, new calculated date of expiration (7 days from thawing the supplement) and store in the refrigerator at 4-8°C
8. Remove only the required amount of media for immediate use in a smaller container. Warm to 30-37°C prior to feeding cells (about 30 min in a 37°C bath or placed in the incubator)
9. A full media change should be performed daily with 0.3-0.5 ml/cm² of culture
10. No adaptation is required to StemBlast® when switching from other formulation, however the cultures should be observed for about 1 passage cycle before initiating differentiation experimentations
11. Culture expansion is required after 6-7 days of growth with a typical split ratio of 1:3 to 1:6. The splitting ratio may vary from cell line.

Quality Control

Each lot of StemBlast® is evaluated for performance on live cultures of embryonic stem cells.