



Trophoblast Medium – Glucose Free (TM-GF)

Catalog #7121-GF

Product Description

Trophoblast Medium – glucose free (TM-GF), when used with Trophoblast Growth Supplement (TGS), FBS and additional glucose (Cat #0893) is a medium designed for optimal growth of normal trophoblasts *in vitro*. It is a sterile, liquid medium which contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors, trace minerals and a low concentration of fetal bovine serum (5%). The medium is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO₂/95% air. The medium is formulated (quantitatively and qualitatively) to provide an optimally balanced nutritional environment that selectively supports the growth of normal trophoblasts *in vitro*.

TM-GF does not contain glucose, an important source of energy for cell growth. TM-GF should be supplemented with Glucose Solution (GS; Cat #0893) prior to use. The recommended glucose concentration is 1g/L but may vary with experimental conditions.

Components

TM-GF consists of 500 ml of basal medium, 25 mL of fetal bovine serum (FBS, Cat. #0025), 5 mL of Trophoblast Growth Supplement (TGS, Cat. #7152) and 5 mL of penicillin/streptomycin solution (P/S, Cat. #0503). *Note: FBS, TGS and P/S are not pre-mixed in TM-GF; they must be added separately to make the complete TM-GF.*

NOTE: TM-GF should be supplemented with Glucose Solution (GS; Cat #0893) prior to use. Glucose Solution is not included and should be purchased separately.

Product Use

TM-GF is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Storage

Store the basal medium at 4°C and the TGS, FBS and P/S solution at -20°C. Protect from light.

Shipping

Basal medium: room temperature. Supplements: dry ice.

Instructions for Use

Thaw TGS, FBS and P/S solution at 37°C. Gently tilt the tubes several times to ensure the contents are completely mixed before adding to the medium. Spray the medium bottle and tubes with 70% ethanol, and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add TGS, FBS and P/S solution to the medium and mix well. Since several components are light-labile, the medium should not be exposed to light

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for extended periods. We do not recommend warming medium in a 37°C water bath prior to use. When stored in the dark at 4°C, the reconstituted medium is stable for one month.

Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.