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Glasgow MEM BHK21
w/L-Glutamine w/o Na Bicarbonate w/o Tryptose Phosphate Broth

CAT N° : SPG-105-1L

Theoretical pH : 6.0 ± 0.3

Osmolality : 260 mOsm/kg $\pm 10\%$

Colour : orange solution, cream-salmon powder

Storage conditions : +2°C to +8°C

Shelf life : 36 months

Endotoxin : < 1 EU/ml

Glucose concentration : 409 mg/100ml $\pm 10\%$

Composition : Displayed on website and in catalogue; also available on request.

Recommended use :

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store the product in a dry area
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)
- Protect the product from any form of humidity
- Use, in one time, after opening, the entire quantity of product of the container, without making a concentrated solution (to avoid the formation of precipitates). If it is not possible, close the container immediately after sampling the quantity of powder required.
- Supplements can be added prior to sterile filtration of the medium or aseptically introduced to sterile medium (respect the final concentration of the media). The nature of the supplements may affect storage conditions and shelf life of the medium.

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

Application :

Glasgow Minimum Essential Medium was originally developed as a modification of Eagle's medium (BME). The modifications included adding 10% tryptose phosphate and twice the normal concentration of amino acids and vitamins. This medium was used to study the genetic factors affecting cell competence. Polyoma virus was used to transform four fibroblast clones from a culture of baby hamster kidney cells.

This medium is intended for use with adherent kidney cell lines such as baby hamster kidney cells (BHK).

Preparation instructions :

Formulated at 12.5 grams of powder per litre of medium

- 1) Measure out 90% of final required volume of water.
- 2) While gently stirring the water, add the powdered medium. Stir until dissolved. Do not heat.
- 3) Rinse original package with a small amount of water to remove all traces of powder. Add to solution in step 2.
- 4) Add 2.75 g/L of sodium bicarbonate (CAT N°: SPS-137-1KG).
- 5) Add 2.95 g/L of tryptose phosphate broth.
- 6) While stirring, adjust the pH of the medium to 0.1-0.3 pH units below the desired pH since it may rise during filtration. The use of 1 N HCl or 1 N NaOH is recommended.
- 7) Add additional water to bring the solution to final volume.
- 8) Sterilize immediately by filtration using a membrane with a porosity of 0.22 microns.
- 9) Aseptically dispense medium into sterile container.

Indications of deterioration :

Dry powder medium should be free flowing. Do not use if powder caked. Prepared medium should be cleared of particulates and flocculent material. Do not use if liquid medium is cloudy or contains precipitate. Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.