



Technical Datasheet

Glasgow's Minimum Essential Medium (GMEM)

With L-Glutamine and Sodium bicarbonate Without Tryptose Phosphate Broth

Product Code: AL166A

Product Description:

Glasgow's Minimum Essential Medium (GMEM) is a modification of Basal Medium Eagle (BME). Ian Macpherson and Michael Stoker added tryptose phosphate broth and twice the concentration of amino acids and vitamins to BME. The medium was originally used to culture BHK-21 clone 13 cells, used for investigating the genetic factors affecting cell competence.

AL166A is Glasgow's Minimum Essential Medium with L-Glutamine and Sodium bicarbonate. It does not contain tryptose phosphate broth. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition:

Ingredients	mg/L
INORGANIC SALTS	
Calcium chloride dihydrate	265.000
Ferric nitrate nonhydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	2750.000
Sodium chloride	6400.000
Sodium dihydrogen phosphate anhydrous	109.000
AMINO ACIDS	
L-Arginine hydrochloride	42.000
L-Cystine dihydrochloride	24.000
L-Glutamine	292.000
L-Histidine hydrochloride	21.000
L-Isoleucine	52.400
L-Leucine	52.400
L-Lysine hydrochloride	73.100

L-Methionine	15.000
L-Phenylalanine	33.000
L-Threonine	47.600
L-Tryptophan	8.000
L-Tyrosine disodium salt	52.000
L-Valine	46.800
VITAMINS	
Choline chloride	2.000
D-Ca-Pantothenate	2.000
Folic acid	2.000
Nicotinamide	2.000
Pyridoxal hydrochloride	2.000
Riboflavin	0.200
Thiamine hydrochloride	2.000
i-Inositol	3.600
OTHERS	
D-Glucose	4500.000
Phenol red sodium salt	15.000

Quality Control:

Appearance Red colored, clear solution.

рН

7.00 - 7.60

Osmolality in mOsm/Kg H₂O 300.00 -340.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Endotoxin

NMT 1 EU/ml

Storage and Shelf Life:

Store at 2-8°C away from bright light. Shelf life is 12 months. Use before expiry date given on the product label.

Disclaimer :

Revision: 04/2022

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia[™] publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia[™] Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.



Plot No. C40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane (West) 400604, Maharashtra, India.Tel No.022-69034800 Email: atc@himedialabs.com Website: www.himedialabs.com.