



Product Specification

cdhfinechemical.com

Technical Information

Glasgow's Minimum Essential Medium(GMEM)

With L-Glutamine and Sodium bicarbonate Without Tryptose Phosphate Broth 1X Liquid Cell Culture Medium

Product Code: AL1166A

Application:- 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.

AL1166A 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 / Litre	Ì	
INORGANIC SALTS		1	
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	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		





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OTHERS

D-Glucose 4500.000 Phenol red sodium salt 15.000

Quality control

Appearance

Red colored, clear solution.

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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 and comparing it with a control medium through minimum three subcultures.

Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 18 months. Use before expiry date given on the product label.

Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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