



Product Specification

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Technical Information

Glasgow's Minimum Essential Medium (GMEM)

With NEAA and Sodium bicarbonate Without L-Glutamine, Sodium phosphate and Tryptose phosphate broth 1X Liquid Cell Culture Medium

Product Code:AL1058

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.

AL1058 is Glasgow's Minimum Essential Medium with sodium bicarbonate and non-essential amino acids. It does not contain L-glutamine, sodium phosphate and 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	
NORGANIC SALTS	•	
Calcium chloride dihydrate	265.000	
erric nitrate nonahydrate	0.100	
Magnesium sulphate anhydrous	97.720	
Potassium chloride	400.000	
Sodium bicarbonate	2750.000	
Sodium chloride	6400.000	
AMINO ACIDS		
Glycine	7.500	
Alanine	8.900	
L-Arginine hydrochloride	42.000	
Asparagine monohydrate	15.000	
Aspartic acid	13.000	
Cystine	24.000	
L-Glutamic acid	14.700	
L-Histidine hydrochloride	21.000	
Isoleucine	52.400	
L-Leucine	52.400	
L-Lysine hydrochloride	73.100	
L-Methionine	15.000	
L-Phenylalanine	33.000	
L-Proline	11.500	
L-Serine	10.500	
Threonine	47.600	
L-Tryptophan	8.000	
L-Tyrosine disodium salt	52.000	
L-Valine	46.800	





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VITA	MI	NS
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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

Methodology

1. Add 10ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

Material required but not provided

L-Glutamine solution 200mM (TCL1012)

Quality control

Appearance

Red colored, clear solution.

На

7.00 -7.60

Osmolality in mOsm/Kg H₂O

275.00 -315.00

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 sub cultures.

Endotoxin Content

NMT 5EU/ml

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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- Do not use the products if it fails to meet specifications for identity and performance parameters.