



Minimum Essential Medium Eagle (MEM)

With Earle's salts and Sodium bicarbonate
Without L-Glutamine and NEAA

Product Code: AL020

Product Description:

Minimum Essential Medium (MEM) is a modification of Basal Medium Eagle (BME). It was developed by Harry Eagle to meet the specific nutritional requirements of certain subtypes of HeLa cells and normal mammalian fibroblasts. MEM includes higher concentration of amino acids so as to closely approximate the protein composition of cultured mammalian cells. MEM can be used either with Earle's salts or Hank's salts and can also be additionally supplemented with Non-essential Amino Acids (NEAA). This medium can be further modified by eliminating calcium to facilitate growth of cells in suspension cultures.

AL020 is Minimum Essential Medium Eagle with Earle's salts and sodium bicarbonate. It does not contain non-essential amino acids and L-glutamine. 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
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	2200.000
Sodium chloride	6800.000
Sodium dihydrogen phosphate	122.000
AMINO ACIDS	
L-Arginine hydrochloride	126.000
L-Cystine dihydrochloride	31.300
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	52.000
L-Leucine	52.000
L-Lysine hydrochloride	72.500
L-Methionine	15.000
L-Phenylalanine	32.000
L-Threonine	48.000

L-Tryptophan	10.000
L-Tyrosine disodium salt dihydrate	51.900
L-Valine	46.000
VITAMINS	
Choline chloride	1.000
D-Ca-Pantothenate	1.000
Folic acid	1.000
Nicotinamide	1.000
Pyridoxal hydrochloride	1.000
Riboflavin	0.100
Thiamine hydrochloride	1.000
i-Inositol	2.000
OTHERS	
D-Glucose	1000.000
Phenol red sodium salt	11.000

Directions:

1. Add 10ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

Material required but not provided:

L-Glutamine solution 200mM (TCL012)

Quality Control:

Appearance

Orangish red colored, clear solution

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

290.00 -330.00

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 content

NMT 1EU/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 :

Revision : 05/2025

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CERTIFICATE OF ANALYSIS

AL020

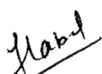
Minimum Essential Medium Eagle (MEM)
w/ Earle's salts and Sodium bicarbonate
w/o NEAA and L-Glutamine

Lot Number : **0000750541**
QC Test Date : 09.03.2026
Expiry Date : 30.09.2027
Release Date : 24.03.2026
Store at : 2° - 8° C

TEST	SPECIFICATIONS	RESULTS
Appearance	Orangish red colored, clear solution	Complies
pH	7.00 - 7.60	7.28
Osmolality in mOsm/Kg H ₂ O	290mOsm* - 330mOsm*	307mOsm*
Sterility	No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.	Complies
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.	Complies
Endotoxin content		
Endotoxin content	NMT 1EU/ml	Complies

*Expressed in mOsm/Kg H₂O

Status of the material : **APPROVED**



Jyotsana Labad



Rajat Singh

Department, Quality Control
Cell Biology

Department, Quality Assurance
Cell Biology

This is to certify that this lot passes and conforms to the above mentioned tests and specifications. User must ensure suitability of the product in their application prior to use.

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Registration No.: M-00391/0

Date of initial issue: 28 February 2022

Valid until: 27 February 2028

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Vienna, 10 March 2025

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Design, Development & Manufacturing of Microbiology, Cell Biology, Plant Tissue Culture & Molecular Biology Products and Trading of Allied Plastic-ware, Lab Aid Instrument and Consumables (Sterile Disposable Petri Dishes, Sterile Swabs, Sterile Loops and Spreaders)

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