BioArtha Labs PVT LTD
Unit 2, Plot #R-11, 1st Cross,
KSSIDC Industrial Estate Bommasandra
2nd Stage, Yarandahalli Jigani Rd
Bangalore, Karnataka -560099 (India)
info@bioarthalabs.com

DATA SHEET

Rev.ver: 01

1. Identification

Product name **Minimum Essential Medium Eagle (MEM)**
With Earle's salts, L-Glutamine, NEAA and 2.2 gms per litre Sodium bicarbonate

Catalog.no **CCML076**

2. Description

Minimum Essential Medium (MEM) is a modified form of Basal Medium Eagle (BME), originally developed by Harry Eagle to fulfill the specific nutritional needs of certain HeLa cell subtypes and normal mammalian fibroblasts. It contains elevated levels of amino acids to better mimic the protein composition of mammalian cells in culture. MEM is available with either Earle's or Hank's salts and can be further enriched with Non-Essential Amino Acids (NEAA).

3. Product Specifications

Appearance	Orangish red colored clear solution
CO_2 concentration, optimum	5.0 %
Storage and shelf life	Store at +2°C to +8°C protected from light.
Shipping conditions	Ambient

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4. Formulation

Components	Concentration mg/L
Amino Acids:	
Glycine	7.500
L-Arginine HCl	126.00
L-Alanine	8.900
L-Asparagine monohydrate	15.000
L-Aspartic acid	13.300
L-Cystine 2HCl	31.300
L-Glutamic acid	14.700
L-Glutamine	292.000
L-Histidine HCl H_2O	42.00
L-Isoleucine	52.00
L-Leucine	52.00
L-Lysine HCl	72.500
L-Methionine	15.00
L-Phenylalanine	32.00
L-Proline	11.500
L-Serine	10.500
L-Threonine	48.00
L-Tryptophan	10.00
L-Tyrosine 2Na.2H_2O	51.900
L-Valine	46.00

Components	Concentration mg/L
Vitamins:	
Choline chloride	1.000
D-Pantothenic acid• ½Ca	1.000
Folic Acid	1.000
i-Inositol	2.000
Nicotinamide	1.000
Pyridoxal HCl	1.000
Riboflavin	0.100
Thiamine HCl	1.000
Inorganic Salts	
$CaCl_2$ 2H_2O	265.00
$MgSO_4$(anhydrous)	97.720
KCl	400.00
$NaHCO_3$	2200.00
NaCl	6800
NaH_2PO_4	122.00
Other Components:	
D-Glucose	1000.0
Phenol Red Sodium Salt	11.000

5. Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices