

MEM (Minimum Essential Medium)

Minimum Essential Medium (MEM) is a common cell culture medium developed from early work using Basal Medium Eagle (BME) with normal mammalian fibroblasts and certain subtypes of HeLa cells. This research indicated that additions made to BME aided cell propagation. MEM is modified with higher concentrations of amino acids to more closely approximate the protein composition of mammalian cells. When supplemented with serum, MEM has been used for cultivation of a wide variety of cells grown in monolayers, such as fibroblasts.

Complete Certificate of Analysis available for each production lot, along with full formulation information.

Formulation

Product Code:	LSGDMEM001	LSGDMEM-002	LSGDMEM-003	LSGDMEM-007	LSGDMEM-006	LSGDMEM-008
Description	Powder	Liquid, lx	Liquid, lx	Liquid, lx	Liquid, lx	Liquid, lx
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00		200.00
Fe (NO ₃) ₃ • 9 H ₂ O						
KCl	400.00	400.00	400.00	400.00	400.00	400.00
KH ₂ PO ₄						
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70		97.70
NaCl	6800	6800.00	6800.00	6800.00	6800.00	6800.00
NaH ₂ PO ₄ • H ₂ O	140.00	140.00	140.00	140.00	1217.00	140.00
Na succinate • 6H ₂ O						
NaHCO ₃		1500.00	2200.00	2200.00	2200.00	2200.00
L-Alanine		8.90				
L-Arginine • HCl	126.40	126.40	126.40	126.40	126.40	126.40
L-Asparagine • H ₂ O		15.00				
L-Aspartic acid		13.30				
L-Cystine • 2HCl	31.20	31.20	31.20	31.20	31.20	31.20
L-Glutamic acid		14.70				
L-Glutamine		292.00	292.00			
Glycine		7.50				
L-Histidine • HCl • H ₂ O	41.90	41.90	41.90	41.90	41.90	41.90
L-Isoleucine	52.50	52.50	52.50	52.50	52.50	52.50
L-Leucine	52.50	52.50	52.50	52.50	52.50	52.50
L-Lysine • HCl	72.50	72.50	72.50	72.50	72.50	72.50
L-Methionine	15.00	15.00	15.00	15.00	15.00	15.00
L-Phenylalanine	32.50	32.50	32.50	32.50	32.50	32.50

QUALITY - TRACEABILITY - INTEGRITY

Life Science Production

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L-Proline		11.50				
L-Serine		10.50				
L-Threonine	47.60	47.60	47.60	47.60	47.60	47.60
L-Tryptophan	10.00	10.00	10.00	10.00	10.00	10.00
L-Tyrosine • 2Na • 2H ₂ O	51.90	51.90	51.90	51.90	51.90	51.90
L-Tyrosine, free base						
L-Valine	46.80	46.80	46.80	46.80	46.80	46.80
Choline bitartrate						
D-Calcium pantothenate	1.00	1.00	1.00	1.00	1.00	1.00
Choline chloride	1.00	1.00	1.00	1.00	1.00	1.00
Folic acid	1.00	1.00	1.00	1.00	1.00	1.00
i-Inositol	2.00	2.00	2.00	2.00	2.00	2.00
Nicotinamide	1.00	1.00	1.00	1.00	1.00	1.00
Pyridoxine • HCl	1.00	1.00	1.00	1.00	1.00	1.00
Riboflavin	0.10	0.10	0.10	0.10	0.10	0.10
Thiamine • HCl	1.00	1.00	1.00	1.00	1.00	1.00
D-Glucose	1000	1000	1000.00	1000.00	1000.00	1000.00
Phenol red • Na		10.00	10.00	10.00	10.00	
Succinic acid						
Sodium Pyruvate		110.00				

Add						
L-Glutamine Powder (mg/L)	292.00					
200 mM Solution (ml/L)	10.00					

For Research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures.

Support

Life Science Production is a division of Life Science Group Ltd.

Life Science Production is [ISIA Traceability Certified](#)

Life Science Group Ltd is an ISO 9001:2015 Certified company

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