

MEM

Minimum Essential Media

Cell Culture Media



Product Description

A versatile basal medium widely used for culturing a variety of mammalian cells. MEM provides essential amino acids, vitamins, and salts, supporting routine cell maintenance and growth. Commonly chosen for adherent cell lines and primary cultures, it forms a reliable foundation for supplementation with serum or growth factors.

Specifications

Product	MEM	MEM w/ HEPES
SKU (Powder)	65170	-
SKU (Liquid)	65120	65125
Appearance	Transparent Liquid	Transparent Liquid
pH	7.0 - 7.4	7.0 - 7.4
Osmolality (mOsm/kg)	280 - 330	290 - 340
Sterility	Pass	Pass
Endotoxin (EU/ml)	<2	<2

Packaging

Format	Sizes
Liquid	Bottle (500ml & 1L) Bags (200L)
Powder	100g, 20 KG

*Additional sizes available upon request
Inquire for disposable bag information including material of construction, designs and L&E*

Shelf Life

A 12-month shelf life has been assigned for cell culture media based on alignment with industry-standard shelf designations for classical media formulations of similar composition. Internal stability studies are being conducted to confirm shelf life for Liquid and DPM.

Storage

Dry powder and liquid media should be stored at 2-8 °C, protected from the light.
For Research Use or Further Manufacturing Only

MEM Base Formula

No.	Component	CAS No.	g/L (+/- 2%)
1	L-ARGININE-HCL	1119-34-2	0.126
2	L-CYSTINE-2HCL	30925-07-06	0.031
3	L-HISTIDINE-HCL-H2O	5934-29-2	0.042
4	L-ISOLEUCINE	73-32-5	0.052
5	L-LEUCINE	61-90-5	0.052
6	L-LYSINE-HCL	657-27-2	0.073
7	L-METHIONINE	63-68-3	0.015
8	L-PHENYLALANINE	63-91-2	0.032
9	L-THREONINE	72-19-5	0.048
10	L-TRYPTOPHAN	73-22-3	0.01
11	L-TYROSINE-2NA-2H2O	122666-87-9	0.052
12	L-VALINE	72-18-4	0.046
13	CHOLINE CHLORIDE	67-48-1	0.001
14	CALCIUM D-PANTOTHENATE	0137-08-06	0.001
15	FOLIC ACID	59-30-3	0.001
16	NIACINAMIDE (NICOTINAMIDE)	98-92-0	0.001
17	PYRIDOXAL HYDROCHLORIDE	65-22-5	0.001
18	RIBOFLAVIN	83-88-5	0.0001
19	THIAMINE-HCL	67-03-8	0.001
20	MYO-INOSITOL	87-89-8	0.002
21	CALCIUM CHLORIDE (ANHY)	10043-52-4	0.2
22	MAGNESIUM SULFATE (ANHY)	7487-88-9	0.09767
23	POTASSIUM CHLORIDE	7447-40-7	0.4
24	SODIUM BICARBONATE	144-55-8	2.2
25	SODIUM CHLORIDE	7647-14-5	6.8
26	SODIUM PHOSPHATE MONOBASIC H2O	10049-21-5	0.14
27	GLUCOSE	50-99-7	1
28	PHENOL RED-NA	34487-61-1	0.01
	Total		11.43

Contact info@phb1.com to request a sample or quote



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