

DMEM

Dulbecco's Modified Eagle Medium Cell Culture Media



Product Description

DMEM is a nutrient-rich modification of Eagle's medium, ideal for sustaining rapidly proliferating mammalian cells. Its elevated amino acid and vitamin content make it well-suited for adherent lines and hybridomas. Frequently used in research laboratories, DMEM serves as a dependable base for supplementation with serum or specific additives.

Specifications

Product	DMEM	DMEM High Glucose (4.5 g/L)
SKU (Powder)	65150	65155
SKU (Liquid)	65110	65115
Appearance	Transparent Liquid	Transparent Liquid
pH	7.0 – 7.4	7.0 – 7.4
Osmolality (mOsm/kg)	310 – 340	320 – 350
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

DMEM Base Formula

No.	Component	CAS No.	g/L (+/- 2%)
1	GLYCINE	56-40-6	0.03
2	L-ARGININE-HCL	1119-34-2	0.084
3	L-CYSTINE-2HCL	30925-07-06	0.063
4	L-HISTIDINE-HCL-H2O	5934-29-2	0.042
5	L-ISOLEUCINE	73-32-5	0.105
6	L-LEUCINE	61-90-5	0.105
7	L-LYSINE-HCL	657-27-2	0.146
8	L-METHIONINE	63-68-3	0.03
9	L-PHENYLALANINE	63-91-2	0.066
10	L-SERINE	56-45-1	0.042
11	L-THREONINE	72-19-5	0.095
12	L-TRYPTOPHAN	73-22-3	0.016
13	L-TYROSINE-2NA-2H2O	122666-87-9	0.104
14	L-VALINE	72-18-4	0.094
15	CHOLINE CHLORIDE	67-48-1	0.004
16	CALCIUM D-PANTOTHENATE	0137-08-06	0.004
17	FOLIC ACID	59-30-3	0.004
18	NIACINAMIDE (NICOTINAMIDE)	98-92-0	0.004
19	PYRIDOXINE-HCL	58-56-0	0.004
20	RIBOFLAVIN	83-88-5	0.0004
21	THIAMINE-HCL	67-03-8	0.004
22	MYO-INOSITOL	87-89-8	0.0072
23	CALCIUM CHLORIDE (ANHY)	10043-52-4	0.2
24	FERRIC NITRATE-9H2O	7782-61-8	0.0001
25	MAGNESIUM SULFATE (ANHY)	7487-88-9	0.09767
26	POTASSIUM CHLORIDE	7447-40-7	0.4
27	SODIUM BICARBONATE	144-55-8	3.7
28	SODIUM CHLORIDE	7647-14-5	6.4
29	SODIUM PHOSPHATE MONOBASIC H2O	10049-21-5	0.125
30	GLUCOSE	50-99-7	1
31	PHENOL RED-NA	34487-61-1	0.015
	Total		12.99

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



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2425 SE Oak Tree Court, Ankeny, Iowa 50021 | phb1.com