

Dulbecco's Modified Eagle's Medium (DMEM)

Low Glucose, with phenol red, w/o sodium bicarbonate, pyruvate, HEPES7

Dulbecco's Modified Eagle's Medium (DMEM) is a modification of Basal Medium Eagle (BME) containing four-fold concentrations of the amino acids and vitamins found in BME. The original formulation was used to culture embryonic mouse cells and has since been modified to support a variety of normal and transformed cells, such as primary cultures of mouse and chicken cells.

DMEM formulations can differ in the amount or absence of components such as glucose, sodium pyruvate, sodium bicarbonate and L-glutamine, sodium pyruvate and phenol red.

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

Product Formulation

COMPONENTS	mg/L
Inorganic Salts	
CaCl ₂ (anhydrous)	200.00
Fe(NO ₃) ₃ · 9H ₂ O	0.10
KCl	400.00
MgSO ₄ (anhydrous)	97.70
NaCl	6,400.00
NaH ₂ PO ₄ · H ₂ O	125.00
NaHCO ₃	—
Amino Acids	
L-Arginine · HCl	84.00
L-Cystine · 2HCl	62.57
L-glutamine	—
Glycine	30.00
L-Histidine · HCl · H ₂ O	42.00
L-Isoleucine	104.80
L-Leucine	104.80
L-Lysine · HCl	146.20

QUALITY - TRACEABILITY - INTEGRITY

Life Science Production

The Science Centre, 1 Blaydon Road, Sandy, Bedfordshire, SG19 1RZ

Tel: +44 (0) 1234 889180 Email: sales@lifesciencegroup.co.uk Web: www.lifesciencegroup.co.uk

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L-Methionine	30.00
L-Phenylalanine	66.00
L-Serine	42.00
L-Threonine	95.20
L-Tryptophan	16.00
L-Tyrosine · 2Na · 2H ₂ O	103.79
L-Valine	94.00
Vitamins	
D-Calcium pantothenate	4.00
Choline chloride	4.00
Folic acid	4.00
<i>i</i> -Inositol	7.20
Nicotinamide	4.00
Pyridoxine · HCl	4.00
Riboflavin	0.40
Thiamine · HCl	4.00
Other	
D-Glucose	1000
Phenol red · Na	15
Sodium pyruvate	–
HEPES	–
Add	
NaHCO ₃ Powder (g/L)	3.70
7.5% Solution (mL/L)	49.40
L-glutamine Powder (mg/L)	584.00
200 mM Solution (mL/L)	20.00

“–” Indicates not present

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Product Presentation

Product Code	Product Description
LSGDMEM-006#	DMEM Low Glucose, with Phenol Red, w/o Sodium Bicarbonate, Pyruvate and HEPES

Storage

Store at + 2 – 8 °C.

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

To learn more, contact us:

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