

Introduction

Dulbecco's Modified Eagle's Medium (DMEM) is a modified Eagle Basal cell medium (BME) containing four times the concentration of amino acids and vitamins. This product is a low-glucose type (1000mg/L) and supports the cultivation of various mammalian cells, including primary fibroblasts, neurons, gliocytes, HUVECs and smooth muscle cells, as well as cell lines such as HeLa, 293, Cos-7 and PC-12. This product is a GMP grade medium without animal-derived components. Therefore, additional culture additives such as fetal bovine serum (FBS) need to be supplemented when culturing cells.

Package Information

Component	C0124
DMEM Medium, Low Glucose	4×500 ml

Storage

Stored at 2°C~8°C, away from light, the shelf life is 12 months. Avoid repeated freezing and thawing.

Specifications

Volume	500mL
Supplementation	Need additional
Glutamine	L-Glutamine
Phenol Red	Phenol Red
Antibiotics	No Antibiotics
Sodium Pyruvate	Sodium Pyruvate
Sodium Bicarbonate	Sodium Bicarbonate
HEPES Buffer	No HEPES
pH	7.0-7.6
Osmolality	295~335 mOsmol/kg
Endotoxin	<0.3 EU/mL

Intended Use

The medium is produced by aseptic processes and can be used for further manufacturing purposes. This product is not intended for human, diagnostic or therapeutic use.

Formulation

DMEM Medium, Low Glucose

Cat. #: C0124 Size: 4×500 ml

Components	mg/L
Amino Acids	
Glycine	30
L-Arginine•HCl	84
L-Cystine•2HCl	63
L-Glutamine	584
L-Histidine•HCl•H ₂ O	42
L-Isoleucine	105
L-Leucine	105
L-Lysine•HCl	146
L-Methionine	30
L-Phenylalanine	66
L-Serine	42
L-Threonine	95
L-Tryptophan	16
L-Tyrosine•2Na•2H ₂ O	104
L-Valine	94
Vitamins	
Choline chloride	4
Folic Acid	4
myo-Inositol	7.2
Niacinamide	4
D-Pantothenic Acid•1/2 Ca	4
Pyridoxal•HCl	4
Riboflavin	0.4
Thiamine•HCl	4
Inorganic Salts	
CaCl ₂	200
Fe(NO ₃) ₃ •9H ₂ O	0.1
MgSO ₄	97.67
KCl	400
NaHCO ₃	3700
NaCl	6400
NaH ₂ PO ₄	109
Other	
D-Glucose	1000
Phenol Red•Na	15
Sodium Pyruvate	110