

DULBECCO'S MODIFIED EAGLE'S MEDIUM (DMEM)

DMEM with 1,000 mg D-glucose/L

Catalog # 36253

500 mL per bottle

Selection of suitable nutrient medium is dependent on type of cell, conditions of culture, and degree of chemical definition required for the cell culture application.

PRODUCT DESCRIPTION:

This product contains L-glutamine and is supplemented with Sodium Bicarbonate.

This product **does not** contain Antibiotics.

pH 7.2 - 7.6

Formulation is listed on reverse side.

STABILITY / STORAGE:

Store at 2 - 8°C.

Stable for one year from date of manufacture (refer to: Directions for use).

Contents guaranteed sterile if seal is not tampered with.

DIRECTIONS FOR USE:

This product contains the labile amino acid L-glutamine which has a half-life of approximately one month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than two months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200mM

L-glutamine (Cat# 07100) to 500 mL to achieve a final concentration of 2 mM.

If desired, add 5 mL of Penicillin and Streptomycin Solution (Cat# 07500) to each 500 mL bottle of this product to achieve a final concentration of 100 U/mL Penicillin and 100 µg/mL of Streptomycin.

Following addition of antibiotics, medium should be used within one week.

**THIS REAGENT IS FOR LABORATORY USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

DULBECCO'S MODIFIED EAGLE'S MEDIUM

COMPONENT	36253 g/L
INORGANIC SALTS	
Calcium Chloride \cdot 2H ₂ O	0.265
Ferric Nitrate \cdot 9H ₂ O	0.0001
Magnesium Sulfate	0.09767
Potassium Chloride	0.4
Sodium Chloride	6.4
Sodium Phosphate Monobasic	0.109
AMINO ACIDS	
L-Arginine \cdot HCl	0.084
L-Cystine \cdot 2HCl	0.0626
L-Glutamine	0.584
Glycine	0.03
L-Histidine \cdot HCl \cdot H ₂ O	0.042
L-Isoleucine	0.105
L-Leucine	0.105
L-Lysine \cdot HCl	0.146
L-Methionine	0.03
L-Phenylalanine	0.066
L-Serine	0.042
L-Threonine	0.095
L-Tryptophan	0.016
L-Tyrosine 2Na \cdot 2H ₂ O	0.10379
L-Valine	0.094
VITAMINS	
Choline Chloride	0.004
Folic Acid	0.004
myo-Inositol	0.0072
Niacinamide	0.004
D-Pantothenic Acid (hemicalcium)	0.004
Pyridoxal \cdot HCl	0.004
Riboflavin	0.0004
Thiamine \cdot HCl	0.004
OTHER	
D-Glucose	1.0
Phenol Red \cdot Na	0.0159
Pyruvic Acid \cdot Na	0.11
Sodium Bicarbonate	3.7