DMEM with 4500 mg/L D-Glucose

Dulbecco's Modified Eagle's Medium (DMEM) with 4500 mg/L D-glucose

Catalog #36250 500 mL

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Product Description

Dulbecco's Modified Eagle's Medium (DMEM) with 4500 mg/L D-Glucose is recommended for a wide variety of cell culture applications. Selection of a suitable nutrient medium is dependent on type of cell, culture conditions, and degree of chemical definition required for the cell culture application.

This product contains L-glutamine and is supplemented with sodium bicarbonate.

See Formulation on page 2 for a full list of components.

Properties

Storage: Store at 2 - 8°C.

Shelf Life: Stable for 12 months from date of manufacture (MFG) on label.

Directions for Use

This product contains labile amino acid L-glutamine, which has a half-life of approximately 12 months when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than 12 months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200 mM L-Glutamine (Catalog #07100) to 500 mL of Alpha MEM without Nucleosides to achieve a final concentration of 2 mM.

NOTE: This product does not contain antibiotics. If desired, add antibiotics and use within 1 week.

Formulation

INORGANIC SALTS	g/L
Calcium Chloride•2H_2O	0.265
Ferric Nitrate•9H2O	0.0001
Magnesium Sulfate	0.09767
Potassium Chloride	0.4
Sodium Chloride	6.4
Sodium Phosphate Monobasic	0.109
AMINO ACIDS	**g/L**
L-Arginine•HCl	0.084
L-Cysteine•2HCl	0.0626
L-Glutamine	0.584
Glycine	0.03
L-Histidine•HCl•H2O	0.042
L-Isoleucine	0.105
L-Leucine	0.105
L-Lysine•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•2H_2O	0.10379
L-Valine	0.094
VITAMINS	**g/L**
Choline Chloride	0.004
Folic Acid	0.004
myo-Inositol	0.0072
Niacinamide	0.004
D-Pantothenic Acid (hemicalcium)	0.004
Pyridoxal•HCl	0.004
Riboflavin	0.0004
Thiamine•HCl	0.004
OTHER	**g/L**
D-Glucose	4.5
Phenol Red•Na	0.0159
Pyruvic Acid•Na	0.11
Sodium Bicarbonate	3.7

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