

# DMEM with 1000 mg/L D-Glucose



## Dulbecco's Modified Eagle's Medium (DMEM) with 1000 mg/L D-glucose

Catalog # 36253      500 mL

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## Product Description

Dulbecco's Modified Eagle's Medium (DMEM) with 1000 mg/L D-Glucose is recommended for a wide variety of cell culture applications. Selection of a suitable nutrient medium is dependent on the 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.

## Handling / Directions For Use

This product contains the labile amino acid L-glutamine which has a half-life of approximately 1 month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than 2 months following the date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200 mM L-Glutamine (Catalog #07100) to 500 mL of DMEM with 1000 mg/L D-glucose 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

<b>INORGANIC SALTS</b>	<b>g/L</b>
Calcium Chloride•2H <sub>2</sub> O	0.265
Ferric Nitrate•9H <sub>2</sub> O	0.0001
Magnesium Sulfate	0.09767
Potassium Chloride	0.4
Sodium Chloride	6.4
Sodium Phosphate Monobasic	0.109
<b>AMINO ACIDS</b>	<b>g/L</b>
L-Arginine•HCl	0.084
L-Cystine•2HCl	0.0626
L-Glutamine	0.584
Glycine	0.03
L-Histidine•HCl•H <sub>2</sub> O	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 <sub>2</sub> O	0.10379
L-Valine	0.094
<b>VITAMINS</b>	<b>g/L</b>
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
<b>OTHER</b>	<b>g/L</b>
D-Glucose	1.0
Phenol Red•Na	0.0159
Pyruvic Acid•Na	0.11
Sodium Bicarbonate	3.7

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