

# Iscove's Modified Dulbecco's Medium



## Iscove's Modified Dulbecco's Medium (IMDM) with 25 mM HEPES

Catalog # 36150      500 mL

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## Product Description

Iscove's Modified Dulbecco's Medium (IMDM) is a synthetic medium that is recommended for a wide variety of cell culture applications. Selection of a suitable nutrient medium is dependent on the type of cell, conditions of culture, and degree of chemical definition required for the cell culture application.

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 medium to achieve a final concentration of 2 mM.

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

## Formulation

<b>INORGANIC SALTS</b>	<b>g/L</b>
Calcium Chloride•2H <sub>2</sub> O	0.219
Magnesium Sulfate	0.09767
Potassium Chloride	0.33
Potassium Nitrate	0.000076
Sodium Chloride	4.505
Sodium Phosphate Monobasic	0.109
Sodium Selenite	0.000017
<b>AMINO ACIDS</b>	<b>g/L</b>
L-Alanine	0.025
L-Arginine•HCl	0.084
L-Asparagine•H <sub>2</sub> O	0.0284
L-Aspartic Acid	0.03
L-Cystine•2HCl	0.09124
L-Glutamic Acid	0.075
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-Proline	0.04
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>
D-Biotin	0.000013
Choline Chloride	0.004
Folic Acid	0.004
myo-Inositol	0.0072
Niacinamide	0.004
D-Pantothenic Acid (hemicalcium)	0.004
Pyridoxine•HCl	0.004
Riboflavin	0.0004
Thiamine•HCl	0.004
Vitamin B-12	0.000013
<b>OTHER</b>	<b>g/L</b>
D-Glucose	4.5
HEPES	5.958
Phenol Red•Na	0.016
Pyruvic Acid•Na	0.11
Sodium Bicarbonate	3.024

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