

## Iscove's Modified Dulbecco's Medium (IMDM)

With L-Glutamine, 25mM HEPES Buffer and Sodium bicarbonate  
Hybridoma Tested

**Product Code: AL070H**

### Product Description:

Iscove's Modified Dulbecco's Medium (IMDM) is an enriched modification of Dulbecco's Modified Eagle's Medium wherein serum can be partially or totally replaced by chemically defined substances. The medium contains additional amino acids, sodium selenite, sodium pyruvate, vitamins and inorganic salts. Potassium nitrate is substituted by ferric nitrate. IMDM was the first medium utilizing HEPES buffer. The medium when appropriately supplemented supports good growth of precursor cells of erythrocytes and macrophages. The medium also supports good growth of T and B lymphocytes and a variety of hybrid cells under serum free or reduced serum conditions.

AL070H is Iscove's Modified Dulbecco's Medium with L-glutamine, 25mM HEPES buffer and sodium bicarbonate. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering capacity of the medium. This medium is also Hybridoma tested. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

### Composition:

Ingredients	mg/L
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	219.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	330.000
Potassium nitrate	0.076
Sodium bicarbonate	3024.000
Sodium chloride	4505.000
Sodium dihydrogen phosphate anhydrous	109.000
Sodium selenite	0.0173
<b>AMINO ACIDS</b>	
Glycine	30.000
L-Alanine	25.000

L-Arginine hydrochloride	84.000
L-Asparagine	25.000
L-Aspartic acid	30.000
L-Cystine dihydrochloride	91.240
L-Glutamic acid	75.000
L-Glutamine	584.000
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	104.800
L-Leucine	104.800
L-Lysine hydrochloride	146.200
L-Methionine	30.000
L-Phenylalanine	66.000
L-Proline	40.000
L-Serine	42.000
L-Threonine	95.200
L-Tryptophan	16.000
L-Tyrosine disodium salt	104.200
L-Valine	93.600
<b>VITAMINS</b>	
Choline chloride	4.000
D-Biotin	0.013
D-Ca-Pantothenate	4.000
Folic acid	4.000
Nicotinamide	4.000
Pyridoxal hydrochloride	4.000
Riboflavin	0.400
Thiamine hydrochloride	4.000
Vitamin B12	0.013
i-Inositol	7.200
<b>OTHERS</b>	
D-Glucose	4500.000
HEPES Buffer	5958.000
Phenol red sodium salt	15.000
Sodium pyruvate	110.000

## Quality Control:

### Appearance

Orangish red colored, clear solution.

### pH

7.00 - 7.60

### Osmolality in mOsm/Kg H<sub>2</sub>O

270.00 - 310.00

### Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

### Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

### Endotoxin Content

NMT 1EU/ml

## Storage and Shelf Life:

Store at 2-8°C away from bright light.

Shelf life is 12 months.

Use before expiry date given on the product label.

### Disclaimer :

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