



Product Specification

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Technical Information

Iscove's Modified Dulbecco's Medium (IMDM)

With 4mM L-Glutamine, 4.5gms Glucose per liter, 25mM HEPES buffer and 1.5gms per litre Sodium bicarbonate 1X Liquid Cell Culture Medium

Product Code: AL1070S

Application: 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. 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.

AL1070S is Iscove's Modified Dulbecco's Medium with 4mM L-glutamine, 25mM HEPES buffer and 3.024gms per litre 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. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition**Ingredientsmg / LitreINORGANIC SALTS219.000Calcium chloride dehydrate219.000Magnesium sulphate anhydrous97.720Potassium chloride330.000Potassium nitrate0.076Sodium bicarbonate1500.000
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Sodium bicarbonate 1500.000
Sodium chloride 4505.000
Sodium dihydrogen phosphate anhydrous 109.000
Sodium selenite 0.0173
AMINO ACIDS
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





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L-Tyrosine disodium salt	104.200	
L-Valine	93.600	
VITAMINS		
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	
OTHERS		
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.

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7.00 -7.60

Osmolality in mOsm/Kg H₂O

260.00 -300.00

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 and comparing it with a control medium through minimum three subcultures.

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 :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any
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- Do not use the products if it fails to meet specifications for identity and performance parameters.