

Product Name

Name: Iscove's Modified Dulbecco's Medium (IMDM), with L-Glutamine

Cat. No.: C3040-0500

Size: 500 mL

Product Description

Iscove's Modified Dulbecco's Medium 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. Appropriately supplemented, the medium supports the growth of precursor cells of erythrocytes and macrophages. The medium also supports the growth of T and B lymphocytes as well as a variety of hybrid cells under serum-free or reduced serum conditions.

Composition

Ingredients	mg/L	Ingredients	mg/L
INORGANIC SALTS			
Calcium chloride dihydrate	219.000	Potassium nitrate	0.076
Disodium hydrogen phosphate anhydrous	109.000	Sodium chloride	4505.000
Magnesium sulphate anhydrous	97.730	Sodium selenite	0.0173
Potassium chloride	330.000		
AMINO ACIDS			
Glycine	30.000	L-Leucine	104.800
L-Alanine	25.000	L-Lysine hydrochloride	146.200
L-Arginine hydrochloride	84.000	L-Methionine	30.000
L-Asparagine	25.000	L-Phenylalanine	66.000
L-Aspartic acid	30.000	L-Proline	40.000
L-Cystine dihydrochloride	91.240	L-Serine	42.000
L-Glutamic acid	75.000	L-Threonine	95.200
L-Glutamine	584.000	L-Tryptophan	16.000
L-Histidine hydrochloride monohydrate	42.000	L-Tyrosine disodium salt	104.200
L-Isoleucine	104.800	L-Valine	93.600
Vitamins			
Choline chloride	4.000	Pyridoxal hydrochloride	4.000
D-Biotin	0.013	Riboflavin	0.400

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D-Ca-Pantothenate	4.000	Thiamine hydrochloride	4.000
Folic acid	4.000	Vitamin B12	0.013
Nicotinamide	4.000	i-Inositol	7.200
OTHERS			
D-Glucose	4500.000	Sodium bicarbonate	3024.000
Phenol red sodium salt	15.000	HEPES	5958.000
Sodium pyruvate	110.000		

Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture

Procedure

1. Take a bottle from the defined storage conditions at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Pipette out the appropriate volume using an aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

Quality Control

Iscove's Modified Dulbecco's Medium (IMDM), with L-Glutamine is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.