

## 【Product Name】

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

Cat. No: C3040-0500

Specifications: 500ml

## 【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. 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.

## 【Composition】

Ingredients	Mg/L
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	219.000
Disodium hydrogen phosphate anhydrous	109.000
Magnesium sulphate anhydrous	97.730
Potassium chloride	330.000
Potassium nitrate	0.076
Sodium chloride	4505.000
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
Phenol red sodium salt	15.000
Sodium pyruvate	110.000
sodium bicarbonate	3024.000
HEPES	5958.000

### 【Storage and Stability】

Iscove's Modified Dulbecco's Medium (IMDM), with L-Glutamine should be stored at 2-8°C. Use before the expiry date.

### 【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.Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.
- 4.Antibiotics may be added if desired.

### 【Quality Control】

Iscove's Modified Dulbecco's Medium (IMDM), with L-Glutamine is tested for sterility, pH, osmolality and endotoxin concentrations. In addition, each batch is tested for cell growth using SP-2.

### 【Precaution and Disclaimer】

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

