

Product Name

Name: Iscove's Modified Dulbecco's Medium (IMDM), with L-Alanyl-L-Glutamine, without Phenol Red

Cat. No.: C3041-0500

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.

The culture medium has been supplemented with L-Alanyl-L-Glutamine in place of L-Glutamine. Compared with L-Glutamine, L-Alanyl-L-Glutamine is much more stable, releases less ammonia in culture, and improves cell viability and growth.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific to different cell lines.

Composition:

Ingredients mg/L

Inorganic salts

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

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-Alanyl-L-Glutamine	867.824
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

Vitamins

Choline chloride	4.000
D-Biotin	0.013
D-Ca-Pantothenate	4.000
Pyridoxal hydrochloride	4.000
Riboflavin	0.400
Thiamine hydrochloride	4.000
Folic acid	4.000



Nicotinamide	4.000
Vitamin B12	0.013
i-Inositol	7.200

Others

D-Glucose	4500.000
Sodium pyruvate	110.000
Sodium bicarbonate	3024.000
HEPES	5958.000

Procedure

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

Storage and Stability

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

The product is light-sensitive and therefore should be protected from light.

Shelf life: 12 months from the date of manufacture..

Precautions

- Do not use it if the packaging is broken or dripping.
- Avoid contamination during operation.
- Rinse immediately with tap water, if the solution contacts the skin and mucous membrane.
- Use before expiry date .

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.

Manufacturer

Shanghai XP Biomed Ltd.

Issue Date

Mar. 2026

Precaution and Disclaimer

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

