IMDM, w: 4.5 g/L Glucose, w: 4 mM L-Glutamine, w: 25 mM HEPES, w: 1.0 mM Sodium pyruvate, w: 3.024 g/L NaHCO3

820800a

Iscove's Modified Dulbecco's Medium (IMDM) is a complex and enriched growth medium for cell culture. IMDM is a modification of DMEM containing selenium and has additional amino acids, vitamins, and inorganic salts compared to DMEM. It lacks iron and requires supplementation with Fetal Bovine Serum (FBS). IMDM uses a sodium bicarbonate buffer system and requires a 5-10% CO2 environment to maintain physiological pH.

IMDM is well suited for rapidly proliferating, high-density cell cultures, including Jurkat, COS-7, and macrophage cells. The various modifications of IMDM available for a range of cell culture applications can be found using the media selector tool. Liquid media provide essential nutrients for all cell culture applications. Each of our high-quality cell culture media is manufactured according to the initially published formula or modifications necessary to the consistent performance and stability of the culture medium.

IMDM vs. DMEM

IMDM contains potassium nitrate instead of ferric nitrate and HEPES and sodium pyruvate. The additional components in IMDM make it more suitable for specialized cell types and specific applications than DMEM.

IMDM vs. RPMI

IMDM and RPMI have different formulations that may be relevant for PMA/ionomycin stimulation. One significant difference is the concentration of Ca2+. While RPMI contains 0.42 mM Ca2+, IMDM contains 1.49 mM.

Quality control

pH = 7.2 +/- 0.02 at 20-25°C.

Each lot has been tested for sterility and absence of mycoplasma and bacteria.

Maintenance

Keep refrigerated at +2°C to +8°C in the dark. Freezing and warming up to +37° C minimize the quality of the product.

Do not heat the medium to more than 37° C or use uncontrollable sources of heat (e.g., microwave appliances).

If only a part of the medium is to be used, remove this amount from the bottle and warm it up at room temperature.

Shelf life for any medium except for the basic medium is 8 weeks from the date of manufacture.

Composition

Components

mg/L

Inorganic Salts

Calcium chloride x 2 H2O

219,00

Potassium chloride

330,00

Potassium nitrate

0.076

Magnesium sulfate anhydrous

97,73

Sodium chloride

4,505.00

Sodium dihydrogen phosphate anhydrous

109,00

Sodium selenite

0,02

Other Components

D(+)-Glucose anhydrous

4,500.00

HEPES

5,958.00

Sodium pyruvate

110,00

Phenol red

15,00

Amino Acids

Cytion GmbH
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CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

L-Alanine
25,00
L-Arginine x HCl
84,00
L-Asparagine x H2O
25,00
L-Aspartic acid
30,00
L-Cystine x 2HCl
91,24
L-Glutamine
584,00
L-Glutamic acid
75,00
Glycine
30,00
L-Histidine x HCl x H2O
42,00
L-Isoleucine
104,80
L-Leucine
104,80
L-Lysine x HCl
146,20
L-Methionine
30,00
L-Phenylalanine
66,00
L-Proline
40,00
L-Serine
42,00
L-Threonine
95,20
L-Tryptophan
16,00
L-Tyrosine x 2Na
104,20
L-Valine
93,60
Vitamins
D(+)-Biotin
0.013
D-Calcium pantothenate
4,00
Choline chloride
4,00
Folic acid
4,00
myo-Inositol
7,20

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