Data Sheet

Iscove's Modified Dulbecco's Medium (IMDM)

Cat. No.	Pack Size
MTE0347	500 ml

For *in vitro* use only

Reagent Composition:

- 4500 mg / litre of D-glucose, anhydrous
- 584 mg / litre L-glutamine,
- 25mM HEPES Buffer
- 3024 mg / litre Sodium Bicarbonate
- 16 mg / litre Phenol Red

Applications:

Iscove's Modified Dulbecco's Medium (IMDM):

- When supplemented with albumin, lecithin and transferrin. **IMDM** supports the growth of precursor cells of erythrocytes and macrophages

- When supplemented with serum, **IMDM** supports the growth of a wide range of mammalian cells.

Description:

IMDM is a defined serum-free medium that is well suited for rapidly proliferating, high-density cell cultures. **IMDM** is reported to support the growth of murine B lymphocytes, haematopoietic tissue from bone marrow, B cells stimulated with lipopoly-saccharide, T lymphocytes, and a variety of hybrid cells.

IMDM is a modification of Dulbecco's Modified Eagle's Medium (DMEM) containing selenium, additional amino acids and vitamins, sodium pyruvate, HEPES buffer, and potassium nitrate instead of ferric nitrate.

Formulation

Formulation	mg / litre
Inorganic Salts	
Calcium Chloride	165.000
Potassium Chloride	330.000
Potassium Nitrate	0.076
Magnesium Sulphate anhydrous	97.670
Sodium Chloride	4505.000
Sodium Dihydrogen Phosphate • H_2O	125.000
Sodium Selenite • $5H_2O$	0.017
Sodium Hydrogen Carbonate	3024.000
Amino Acids	
L-Alanine	25.000
L-Arginine • HCl	84.000
L-Asparagine • H_2O	28.400
L-Aspartic Acid	30.000
L-Cysteine	70.000
L-Glutamic Acid anhydrous	75.000
L-Glutamine	584.000
Glycine	30.000
L-Histidine • HCl	42.000
L-Isoleucine	105.000
L-Leucine	105.000
L-Lysine • HCl	146.000
L-Methionine	30.000

Formulation (continued)

Formulation	mg / litre
Amino Acids (continued)	
L-Phenylalanine	66.000
L-Proline	40.000
L-Serine	42.000
L-Threonine	95.000
L-Tryptophan	16.000
L-Tyrosine	74.860
L-Valine	94.000
Vitamins	
D(+)-Biotin	0.013
D-Calcium Pantothenate	4.000
Cholin Chloride	4.000
Folic Acid	4.000
Myo-Inositol	7.200
Nicotinamide	4.000
Pyridoxine • HCl	4.000
Riboflavin	0.400
Thiamine • HCl	4.000
Vitamin B12	0.013
Other Components	
D-Glucose anhydrous	4500.000
HEPES	5958.000
Phenol Red	16.000
Sodium Pyruvate	110.000

pH: 7.0 – 7.5

Storage: +2°C to +8°C

Cell culture: Tested

Sterility: Tested

Safety warnings and precautions:

Only persons trained in laboratory techniques should handle this product and its components. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

Some applications this product is used in may require a license, which is not provided by the purchase of this product. Users should obtain the license if required.

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Related products:

Cat. No.	Product	Pack Size
MTE0348	**DMEM,** (w 4,5g/L Glucose, wo L-Glutamine, wo sodium pyruvate, wo sodium hydrogen pyruvate)	500 ml
MTE0349	**Ham`s F12**, (w L-Glutamine, wo sodium hydrogen pyruvate)	500 ml
MTE0350	**Glasgow-MEM**, (w L-Glutamine, wo Tryptose/Phosphate-Boullion, wo sodium hydrogen pyruvate	500 ml
MTE0352	**Penicillin/Streptomycin** (10000IU/10000 ug/ml,100x)	100 ml
MTE0353	**L-Glutamine** 200mM	100 ml
MTE0354	**Cell freezing mix** (FCS/DMSO)	50 ml
MTE0355	**NEA** (Non-essential amino acids)	100 ml
MTE0356	**Sodium Pyruvate** 100mM	100 ml
MTE0357	**1X PBS** (without Ca^{+2}, Mg^{+2})	500 ml
MTE0358	**Trypsin/EDTA** (0.05% / 0.02% in PBS)	100 ml

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