

DMEM Low Glucose
w/ L-Glutamine w/ Sodium Pyruvate

CAT N° : ISL0060-500

Theoretical pH : 7.3 ± 0.3

Osmolality : 316 mOsm/kg $\pm 10\%$

Colour : Red, clear solution

Storage conditions : +2°C to +8°C

Shelf life : 12 months

Sterility tests :

- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

Endotoxins : < 1 EU/ml

Cell growth test :

Medium tested for the ability to support Hela cell growth.

Composition : Displayed on website and in catalog; also available on request.

Recommended use :

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions).
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

Description :

Lots of modifications of Eagle's medium have been developed since the creation of the first formulation. The most used Eagle's medium is the Dulbecco's Modified Eagle's Medium (DMEM). It is a modification of Basal Medium Eagle (BME) that contains a concentration more important of amino acids and vitamins and also supplementary components. DMEM Low Glucose corresponds to the original formulation with 1000 mg/L of glucose; it was used to culture embryonic mouse cells.

Uses :

Supplements, such as antibiotics, should be added as sterile supplements to the medium.

Storage conditions and shelf-life of supplemented product will be affected by the nature of the supplements. Sterile serum should not be refiltered before or after being added to sterile medium because growth promoting capacity may be reduced upon re-filtration.

Signs of Deterioration :

Medium should be clear and free of particulate and flocculent material. Do not use, if medium is cloudy or contains precipitate.

Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

For Research use only

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ISL0060-500
DMEM LOW Glucose - Formulation

DMEM Low Glucose		ISL0060 Liquid mg/l	ISL0064 Liquid mg/l	ISL0065 Liquid mg/l	ISL0066 Liquid mg/l	ISL0061 Powder mg/l
Amino Acids	Glycine	30	30	30	30	30
	L-Alanyl-L-Glutamine (Glutamine Stable)	/	/	/	862	/
	L-Arginine Monohydrochloride	84	84	84	84	84
	L-Cystine Dihydrochloride	62,6	62,6	62,6	62,6	62,6
	L-Glutamine	584	/	584	/	584
	L-Histidine Monohydrochloride Monohydrate	42	42	42	42	42
	L-Isoleucine	105	105	105	105	105
	L-Leucine	105	105	105	105	105
	L-Lysine Monohydrochloride	146	146	146	146	146
	L-Methionine	30	30	30	30	30
	L-Phenylalanine	66	66	66	66	66
	L-Serine	42	42	42	42	42
	L-Threonine	95	95	95	95	95
	L-Tryptophan	16	16	16	16	16
L-Tyrosine Disodium Salt Dihydrate	103,79	103,79	103,79	103,79	103,79	
L-Valine	94	94	94	94	94	
Inorganic Salts	Calcium Chloride Anhydrous	/	/	/	/	200
	Calcium Chloride Dihydrate	265	265	265	265	/
	Ferric Nitrate Nonahydrate	0,1	0,1	0,1	0,1	0,1
	Magnesium Sulfate Anhydrous	97,67	97,67	97,67	97,67	97,67
	Potassium chloride	400	400	400	400	400
	Sodium Bicarbonate	3700	3700	3700	3700	/
	Sodium Chloride	6400	6400	4400	6400	6400
	Sodium Phosphate Monobasic Anhydrous	109	109	109	109	109
Vitamins	Choline Chloride	4	4	4	4	4
	D-Ca Pantothenate	4	4	4	4	4
	Folic Acid	4	4	4	4	4
	Myo-Inositol	7,2	7,2	7,2	7,2	7,2
	Nicotinamide	4	4	4	4	4
	Pyridoxal Hydrochloride	4	4	4	4	4
	Riboflavine	0,4	0,4	0,4	0,4	0,4
	Thiamine Hydrochloride	4	4	4	4	4
O.C.*	D-Glucose Anhydrous	1000	1000	1000	1000	1000
	Hepes Free Acid	/	/	5958	/	/
	Phenol Red Solution Salt	15,9	15,9	15,9	15,9	15,9
	Sodium Pyruvate	110	110	110	110	110

* Other components

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