

Dulbecco's Modified Eagle's Medium

High Glucose w/L-Glutamine w/Sodium Pyruvate w/o Sodium Bicarbonate

CAT N° : P0102

Theoretical pH : 6.3 ± 0.3**Osmolality** : 255 mOsm/kg ± 10%**Colour** : yellow -orange powder , orange in liquid**Storage conditions** : +2°C to +8°C**Shelf life** : 36 months**Endotoxin** : < 1 EU/ml**Composition** : Displayed on website and in catalogue; also available on request.**Recommended use :**

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store the product in a dry area
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)
- Protect the product from any form of humidity
- Use, in one time, after opening, the entire quantity of product of the container, without making a concentrated solution (to avoid the formation of precipitates). If it is not possible, close the container immediately after sampling the quantity of powder required.
- Supplements can be added prior to sterile filtration of the medium or aseptically introduced to sterile medium (respect the final concentration of the media). The nature of the supplements may affect storage conditions and shelf life of the medium.

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

Preparation instructions :

- 1) Measure out 90% of final required volume of water. Water temperature should be 15-20°C.
- 2) While gently stirring the water, add the powdered medium (13.535 g/litre). Stir until dissolved. Do not heat.
- 3) Rinse original package with a small amount of water to remove all traces of powder. Add to solution in step 2.
- 4) To the solution in step 3, add 3.7g of sodium bicarbonate (CAT N° : P2060) or 49.3ml of sodium bicarbonate solution (7.5% w/v) (CAT N° : L0680) for each litre of final volume of medium being prepared. Stir until dissolved.
- 5) While stirring, adjust the pH of the medium to 0.1-0.3 pH units below the desired pH since it may rise during filtration. The use of 1 N HCl or 1 N NaOH is recommended.
- 6) Add additional water to bring the solution to final volume.
- 7) Sterilize immediately by filtration using a membrane with a porosity of 0.22 microns.
- 8) Aseptically dispense medium into sterile container.

Indications of deterioration :

Dry powder medium should be free flowing. Do not use if powder caked. Prepared medium should be cleared of particulates and flocculent material. Do not use if liquid medium is cloudy or contains precipitate. Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

Product code : P0102

Product name : DMEM High Glucose w/ L-Glutamine w/o Sodium Bicarbonate w/ Sodium Pyruvate

CAS Number	Components	Quantity in g/l
10035-04-8	Calcium Chloride Dihydrate	0.26500000
7487-88-9	Magnesium Sulfate Anhydrous	0.09767000
7782-61-8	Ferric Nitrate Nonahydrate	0.00010000
7447-40-7	Potassium Chloride	0.40000000
7647-14-5	Sodium Chloride	6.40000000
7558-80-7	Sodium Phosphate Monobasic Anhydrous	0.10900000
50-99-7	D-Glucose Anhydrous	4.50000000
56-40-6	Glycine	0.03000000
1119-34-2	L-Arginine Monohydrochloride	0.08400000
30925-07-6	L-Cystine Dihydrochloride	0.06260000
56-85-9	L-Glutamine	0.58400000
5934-29-2	L-Histidine Monohydrochloride Monohydrate	0.04200000
73-32-5	L-Isoleucine	0.10500000
61-90-5	L-Leucine	0.10500000
657-27-2	L-Lysine Monohydrochloride	0.14600000
63-68-3	L-Methionine	0.03000000
63-91-2	L-Phenylalanine	0.06600000
56-45-1	L-Serine	0.04200000
72-19-5	L-Threonine	0.09500000
73-22-3	L-Tryptophan	0.01600000
69847-45-6	L-Tyrosine Disodium Salt Dihydrate	0.10379000
72-18-4	L-Valine	0.09400000
67-48-1	Choline Chloride	0.00400000
137-08-6	D-Ca Pantothenate	0.00400000
59-30-3	Folic Acid	0.00400000
87-89-8	Myo-Inositol	0.00720000
98-92-0	Nicotinamide (Nicotinic acid amide)	0.00400000
65-22-5	Pyridoxal Hydrochloride	0.00400000
83-88-5	Riboflavin	0.00040000
67-03-8	Thiamine Hydrochloride	0.00400000
34487-61-1	Phenol Red Sodium Salt	0.01590000
113-24-6	Sodium Pyruvate	0.11000000
WATER		986.46534000