

Glasgow's Modified Eagle's Medium (Glasgow's-MEM)

Cat. No.	Pack Size
MTE0350	500 ml

For *in vitro* use only

Reagent Composition:

Does **not** contain tryptose phosphate broth.

- 4500 mg / litre of Dextrose
- 584.60 mg / litre L-glutamine,
- 17 mg / litre Phenol Red

Applications:

Glasgow's Modified Eagle's Medium (Glasgow's-MEM)

is used with adherent kidney cell lines such as baby hamster kidney cells (BHK).

- Complete the **Glasgow's-MEM** formulation by adding 10% tryptose phosphate broth.

Description:

Glasgow's Modified Eagle's Medium was originally developed as a modification of Eagle's medium (BME) by adding 10% tryptose phosphate and twice the normal concentration of amino acids and vitamins to support the growth of BHK-21 cells. This medium is used to study the genetic factors affecting cell competence. The polyoma virus is used to transform four fibroblast clones from a culture of baby hamster kidney cells.

Formulation

Formulation	mg / litre
Inorganic Salts	
Calcium Chloride Di-hydrate	264.90
Ferric Nitrate Non hydrate	0.10
Magnesium Sulphate	97.70
Potassium Chloride	400.00
Sodium Bicarbonate	2750.00
Sodium Chloride	6400.00
Sodium Phosphate Monobasic Monohydrate	123.80
Amino Acids	
L-Arginine • HCl	42.12
L-Cysteine	24.02
L-Glutamine	584.60
L-Histidine • HCl • H ₂ O	21.00
L-Isoleucine	52.46
L-Leucine	52.46
L-Lysine • HCl	73.06
L-Methionine	14.92
L-Phenylalanine	33.02
L-Threonine	47.64
L-Tryptophan	8.16
L-Tyrosine	36.22
L-Valine	46.86

Formulation (continued)

Formulation	mg / litre
Vitamins	
Choline Chloride	2.00
D-Calcium Pantothenate	2.00
Folic Acid	2.00
Myo-Inositol	4.00
Nicotinamide	2.00
Pyridoxal • HCl	2.00
Riboflavin	0.20
Thiamine • HCl	2.00
Other Components	
Dextrose	4500.00
Phenol Red Sodium Salt	17.00

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.

Related products:

Cat. No.	Product	Pack Size
MTE0347	IMDM, (wo L-Glutamine, w 25mM HEPES, wo sodium hydrogen pyruvate)	500 ml
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
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