

Glasgow-MEM liquid medium

The medium was originally developed at the Glasgow University by Stoker and McPherson to grow primary Hamster kidney cells. If compared to Eagle's basal medium, the formulation of Glasgow-MEM is characterized by a double amount of both vitamins, and amino acids.

This medium is also available as a standard in powder with a minimum order of 500 litres; pack sizes are 10, or 50 litres.

Product	Cat. No.	Unit
Glasgow-MEM liquid medium with 2.75 g/l NaHCO ₃ , without L-glutamine Storage temperature: +2 – +8 °C	F 0525	500 ml

Formulation

Different from the original formulation, only 0.05 mg/l riboflavin is used to avoid negative photo oxidative effects.

Tab. 17: Composition of the Glasgow-MEM liquid medium

Substance	Concentration (mg/l)	Substance	Concentration (mg/l)
NaCl	6400	L-methionine	15
KCl	400	L-phenylalanine	33
NaH ₂ PO ₄ ·H ₂ O	124	L-threonine	48
CaCl ₂	200	L-tryptophane	8
MgSO ₄ ·7H ₂ O	200	L-tyrosine	36
Fe(NO ₃) ₃ ·9H ₂ O	0.1	L-valine	47
D-glucose	4500	Cholin chloride	2
Phenol red Na	15.9	Folic acid	2
NaHCO ₃	2750	Myo-inositol	3.6
L-arginine-HCl	42	Nicotinamide	2
L-cystine	24	D-Ca-pantothenate	2
L-glutamine	584.6	Pyridoxal-HCl	2
L-histidine	16	Riboflavin	0.2
L-isoleucine	52	Thiamine-HCl	2
L-leucine	52		
L-lysine-HCl	74		

References:

1. Stoker, M.G.P. and Mac Pherson, J.; *Virology* **14**, 359 [1961]
2. Stoker, M.G.P. and Mac Pherson, J.; *Nature* **203**, 1335 [1964]
3. McPherson. J. and Stocker. M.G.P.; *Virology* **16**, 147 [1962]