



Product Information

Swim's S-77 Medium

Swim's S-77 medium (designated S-77) modification of MEM Eagle's medium that lacks biotin and has increased levels of amino acids and inositol. This medium was designed to support suspension cultures of cells derived from the Novikoff hepatoma. It is an incomplete basal medium, requiring additions of L-glutamine, L-cystine, calcium chloride and other supplementary components. When properly supplemented, Swim's S-77 medium demonstrated ability to establish, in culture, a number of stable cell lines (N1-31, N1-S1/FUdr) derived from the Novikoff hepatoma.

COMPONENT	S 2513
	g/L
INORGANIC SALTS	
MgSO ₄ (anhyd)	0.0963
KCl	0.4
NaCl	6.8
NaH ₂ PO ₄ (anhyd)	0.122
AMINO ACIDS	
L-Alanine	0.02675
L-Arginine•HCl	0.1675
L-Aspartic Acid	0.02
Glycine	0.01125
L-Histidine•HCl•H ₂ O	0.0105
L-Isoleucine	0.026
L-Leucine	0.026
L-Lysine•HCl	0.037
L-Methionine	0.015
L-Phenylalanine	0.0165
L-Proline	0.01725
L-Serine	0.021
L-Threonine	0.048
L-Tryptophan	0.01
L-Tyrosine•2Na•2H ₂ O	0.02612
DL-Valine	0.04675
VITAMINS	
Choline Bitartrate	0.002535
Folic Acid	0.0022
myo-Inositol	0.00215
Niacinamide	0.0006
D-Pantothenic Acid •½Ca	0.0012
Pyridoxal•HCl	0.001
Riboflavin	0.000375
Thiamine•HCl	0.0017
OTHER	
Glucose	1.0
Streptomycin Sulfate	0.0125
ADD	
NaHCO ₃	2.2
CaCl ₂ •2H ₂ O	0.265
L-Glutamine	0.292
L-Cystine	0.012
Grams of powder required to prepare 1 L	9.0

REFERENCE

1. Swim, H.E., Parker, R.F. (1958) Stable Tissue Culture Media Prepared in Dry Form. J. Lab Clin. Med. 52, 309.