WISENT INC.

Minimum Essential Medium (MEM) Formulation

Catalog no.	320-005 Liquid, 1X MEM
Inorganic Salts	mg/L
$CaCl_2$ (anhydrous)	200.00
KCl	400.00
$MgSO_4$ (anhydrous)	97.70
NaCl	6800.00
$NaH_2PO_4 \cdot H_2O$	140.00
$NaHCO_3$	2200.00
Amino Acids	
L-Arginine·HCl	126.40
L-Cystine·2HCl	31.20
L-Glutamine	292.00
L-Histidine·HCl·H_2O	41.90
L-Isoleucine	52.50
L-Leucine	52.50
L-Lysine·HCl	72.50
L-Methionine	15.00
L-Phenylalanine	32.50
L-Threonine	47.60
L-Tryptophan	10.00
L-Tyrosine·2Na·H_2O	51.90
L-Valine	46.80
Vitamins	
D-Calcium pantohtenate	1.00
Choline chloride	1.00
Folic acid	1.00
i-Inositol	2.00
Nicotinamide	1.00
Pyridoxine·HCl	1.00
Riboflavin	0.10
Thiamine·HCl	1.00
Other	
D-Glucose	1000.00
Phenol red, Na	10.00
Specifications	
pH (after buffer)	7.2 ± 0.2
Osmolality (mOsm/kg)	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	NA