

MEM-Eagle Joklik's  
Formulation for Suspension  
Cultures w/  
L-Glutamine

04-719

Lonza

Description	CAS #	Chemical Formula	Concentration		Molarity	
			g/L	mg/L	mM	uM
Dextrose	50-99-7	C6H12O6	2.000	2.000E+03	11.101	1.110E+04
Magnesium Chloride Hexahydrate	7791-18-6	MgCl2 • 6H2O	0.200	200.033	0.984	983.930
Potassium Chloride	7447-40-7	KCl	0.400	400.000	5.366	5.366E+03
Sodium Bicarbonate	144-55-8	NaHCO3	2.000	2.000E+03	23.807	2.381E+04
Sodium Chloride	7647-14-5	NaCl	6.500	6.500E+03	111.225	1.112E+05
Sodium phosphate monobasic monohydrate	10049-21-5	NaH2PO4 • H2O	1.327	1.327E+03	9.617	9.617E+03
L-Arginine Monohydrochloride	1119-34-2	C6H14N4O2 • HCl	0.126	126.000	0.598	598.120
L-Glutamine	56-85-9	C5H10N2O3	0.294	294.000	2.012	2.012E+03
L-Histidine, Free Base	71-00-1	(C3N2H3)CH2CH(NH2)COOH	3.100E-02	31.000	0.200	199.794
L-Isoleucine	73-32-5	HO2CCH(NH2)CH(CH3)CH2CH3	5.200E-02	52.000	0.396	396.432
L-Leucine	61-90-5	HO2CCH(NH2)CH2CH(CH3)2	5.200E-02	52.000	0.396	396.432
L-Lysine Monohydrochloride	657-27-2	C6H14N2O2 • HCl	7.247E-02	72.465	0.397	396.744
L-Methionine	63-68-3	HO2CCH(NH2)CH2CH2SCH3	1.500E-02	15.000	0.101	100.536
L-Phenylalanine	63-91-2	HO2CCH(NH2)CH2C6H5	3.200E-02	32.000	0.194	193.716
L-Threonine	72-19-5	HO2CCH(NH2)CH(OH)CH3	4.800E-02	48.000	0.403	402.955
L-Tryptophan	73-22-3	C11H12N2O2	1.000E-02	10.000	4.896E-02	48.964
L-Valine	72-18-4	HO2CCH(NH2)CH(CH3)2	4.600E-02	46.000	0.393	392.827
D-Calcium Pantothenate (Vitamin B5)	137-08-6	C18H32CaN2O10	1.000E-03	1.000	2.099E-03	2.099
Choline Chloride	67-48-1	HOCH2CH2N(CH3)3Cl	1.000E-03	1.000	7.162E-03	7.162
Folic Acid	59-30-3	C19H19N7O6	1.000E-03	1.000	2.266E-03	2.266
I-Inositol	87-89-8	C6H12O6	2.000E-03	2.000	1.110E-02	11.099
Niacinamide (Nicotinamide)	98-92-0	C6H6N2O	1.000E-03	1.000	8.189E-03	8.189
Pyridoxal hydrochloride	65-22-5	C8H9NO3 • HCl	1.000E-03	1.000	4.912E-03	4.912
Riboflavin (Vitamin B2)	83-88-5	C17H20N4O6	1.000E-04	0.100	2.657E-04	0.266
Thiamine Monohydrochloride (Vitamin B1)	67-03-8	C12H18N4OSCl2	1.000E-03	1.000	2.965E-03	2.965
Phenol Red	34487-61-1	C19H14O5S	1.000E-02	10.000	2.657E-02	26.567
L-Tyrosine Disodium Salt, Dihydrate	122666-78-9	C9H9NO3Na2 • 2H2O	4.700E-02	47.000	0.180	179.946
L-Cystine Dihydrochloride	30925-07-6	C6H12N2O4S2•2HCl	3.240E-02	32.400	0.103	103.448