

Product Information

Ham's F-12, with L-Glutamine

Cat. No.: E0500-220 Volume: 500 ml

Product Specifications

CO2 concentration, optimum	2.5%
pH	7.0 – 7.5
Osmolality	260 – 320 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	<1 EU/ml (<0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2°to +8°C protected from light

Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Amino Acids			
L-Alanine	9.00	89.09	0.10
L-Arginine HCl	211.00	210.66	1.00
L-Asparagine H2O	15.01	150.13	0.10
L-Aspartic Acid	13.30	133.10	0.10
L-Cysteine HCl H2O	35.00	175.63	0.20
L-Glutamine	146.00	146.15	1.00
Glycine	7.51	75.07	0.10
L-Glutamic Acid	14.70	147.13	0.10
L-Histidine HCl H2O	20.96	209.63	0.10
L-Isoleucine	3.94	131.17	0.03
L-Leucine	13.10	131.17	0.10
L-Lysine HCl	36.50	182.65	0.20
L-Methionine	4.48	149.21	0.03
L-Phenylalanine	4.96	165.19	0.03
L-Proline	34.50	115.13	0.30
L-Serine	10.50	105.09	0.10
L-Threonine	11.90	119.12	0.10
L-Tryptophan	2.04	204.23	0.01
L-Tyrosine 2 Na 2 H2O	7.78	261.19	0.03
L-Valine	11.70	117.15	0.10
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Vitamins				
D-Biotin	0.0073	244.31	0.00003	
Choline chloride	13.96	139.62	0.10	
D-Calcium Pantothenate	0.48	476.53	0.001	
Folic Acid	1.32	441.40	0.003	
myo-Inositol	18.00	180.16	0.10	
Nicotinamide	0.037	122.12	0.0003	
Pyridoxine HCl	0.062	203.62	0.0003	
Riboflavin	0.038	376.36	0.0001	
Thiamine HCl	0.34	337.27	0.001	
Vitamin B12	1.36	1355.37	0.001	
Inorganic Salts				
Calcium Chloride 2 H ₂ O	44.10	147.01	0.24	
Cupric Sulfate 5 H ₂ O	0.0025	249.69	0.00001	
Iron(II) Sulfate 7 H ₂ O	0.834	278.01	0.003	
Magnesium Chloride 6 H ₂ O	123.00	203.30	0.61	
Potassium Chloride	224.00	74.55	3.00	
Sodium Bicarbonate	1176.00	84.01	14.00	
Sodium Chloride	7599.00	58.44	130.03	
Sodium Phosphate Dibasic Anhydrous	142.04	141.96	1.00	
Zinc Sulfate 7 H ₂ O	0.863	287.56	0.003	
Other Components				
D-Glucose	1802.00	180.16	10.00	
Hypoxanthine	4.08	136.11	0.03	
Linoleic Acid	0.084	280.45	0.0003	
Lipoic Acid	0.21	206.33	0.001	
Phenol Red Sodium Salt	1.3	376.36	0.003	
Putrescine 2 HCl	0.151	161.07	0.001	
Sodium Pyruvate	110.00	110.04	1.00	
Thymidine	0.70	242.23	0.003	

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Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.