

Product Information

Ham's F-12, with L-Glutamine

Cat. No.: HAM-12-A (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

Vitamins

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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

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.

Help needed?

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If you have any further questions regarding this product please do not hesitate to contact our cell culture experts:

Email: techservice@capricorn-scientific.com

Phone: +49 6424 9446427