

## Product Information

Ham's F-10, with L-Glutamine  
Cat. No. HAM-10-A (500 ml)

### Product Specifications

Appearance	Clear red orange solution
CO <sub>2</sub> concentration, optimum	5%
Storage and shelf life	Store at +2°C to +8°C protected from light. Once opened, store at 4° C and use within 6-8 weeks.
Shipping conditions	Ambient

### Formulation

Components	Concentration mg/L
<b>Amino Acids:</b>	
L-Alanine	8.91
L-Arginine HCl	211.00
L-Asparagine H <sub>2</sub> O	15.01
L-Aspartic Acid	13.30
L-Cysteine HCl H <sub>2</sub> O	35.13
Glycine	7.51
L-Glutamine	146.00
L-Glutamic Acid	14.70
L-Histidine HCl H <sub>2</sub> O	21.00
L-Isoleucine	2.60
L-Leucine	13.10
L-Lysine HCl	29.30
L-Methionine	4.48
L-Phenylalanine	4.96
L-Proline	11.50
L-Serine	10.50
L-Threonine	3.57
L-Tryptophan	0.60
L-Tyrosine 2 Na 2 H <sub>2</sub> O	2.61
L-Valine	3.50
<b>Vitamins:</b>	
D-Biotin	0.024
Choline chloride	0.698
D-Calcium Pantothenate	0.715
Folic Acid	1.32
myo-Inositol	0.541
Nicotinamide	0.615

Components	Concentration mg/L
Pyridoxine HCl	0.206
Riboflavin	0.376
Thiamine HCl	1.00
Vitamin B12	1.36
<b>Inorganic Salts:</b>	
CaCl <sub>2</sub> 2 H <sub>2</sub> O	44.10
CuSO <sub>4</sub> 5 H <sub>2</sub> O	0.0025
FeSO <sub>4</sub> 7 H <sub>2</sub> O	0.834
MgSO <sub>4</sub>	74.64
KCl	285.00
KH <sub>2</sub> PO <sub>4</sub>	83.00
NaHCO <sub>3</sub>	1200.00
NaCl	7400.00
Na <sub>2</sub> HPO <sub>4</sub>	153.70
ZnSO <sub>4</sub> 7 H <sub>2</sub> O	0.0288
<b>Other Components:</b>	
D-Glucose	1100.00
Hypoxanthine	4.08
Lipoic acid	0.21
Phenol Red Sodium Salt	1.3
Sodium Pyruvate	110.00
Thymidine	0.73

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## Precautions and Disclaimer

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This product is for research use only.

## 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 by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).