

### Ham's F-10 Medium Ingredient Formula

Ingredient(mg/L) / Cat. No.	PM151110	PM151110A	PM151111	PM151111A	PM151112	PM151113	PM151114
<b>Inorganic Salt</b>							
CaCl <sub>2</sub> (Anhydrous)	33.3	33.3	33.3	33.3	33.3	33.3	33.3
CuSO <sub>4</sub> •5H <sub>2</sub> O	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
FeSO <sub>4</sub> •7H <sub>2</sub> O	0.834	0.834	0.834	0.834	0.834	0.834	0.834
MgSO <sub>4</sub> (Anhydrous)	74.64	74.64	74.64	74.64	74.64	74.64	74.64
KCl	285	285	285	285	285	285	285
KH <sub>2</sub> PO <sub>4</sub>	83	83	83	83	83	83	83
NaHCO <sub>3</sub>	1200	1200	1200	1200	1200	1200	1200
NaCl	7400	7400	6900	6900	7400	7400	7400
Na <sub>2</sub> HPO <sub>4</sub> (Anhydrous)	153.7	153.7	153.7	153.7	153.7	153.7	153.7
ZnSO <sub>4</sub> •7H <sub>2</sub> O	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288
<b>Amino Acid</b>							
L-Alanyl-L-Glutamine	–	–	–	–	–	217	–
Glycine	7.5	7.5	7.5	7.5	7.5	7.5	7.5
L-Alanine	9	9	9	9	9	9	9
L-Arginine Hydrochloride	211	211	211	211	211	211	211
L-Asparagine Monohydrate	15.01	15.01	15.01	15.01	15.01	15.01	15.01
L-Aspartic Acid	13.3	13.3	13.3	13.3	13.3	13.3	13.3
L-Cysteine Hydrochloride	35.12	35.12	35.12	35.12	35.12	35.12	35.12
L-Glutamic Acid	14.7	14.7	14.7	14.7	14.7	14.7	14.7
L-Glutamine	146	146	146	146	–	–	146
L-Histidine Hydrochloride	21	21	21	21	21	21	21
L-Isoleucine	2.6	2.6	2.6	2.6	2.6	2.6	2.6
L-Leucine	13.1	13.1	13.1	13.1	13.1	13.1	13.1
L-Lysine Hydrochloride	29.3	29.3	29.3	29.3	29.3	29.3	29.3
L-Methionine	4.48	4.48	4.48	4.48	4.48	4.48	4.48
L-Phenylalanine	4.96	4.96	4.96	4.96	4.96	4.96	4.96
L-Proline	11.5	11.5	11.5	11.5	11.5	11.5	11.5
L-Serine	10.5	10.5	10.5	10.5	10.5	10.5	10.5
L-Threonine	3.57	3.57	3.57	3.57	3.57	3.57	3.57
L-Tryptophan	0.6	0.6	0.6	0.6	0.6	0.6	0.6
L-Tyrosine Disodium Salt	2.61	2.61	2.61	2.61	2.61	2.61	2.61
L-Valine	3.5	3.5	3.5	3.5	3.5	3.5	3.5
<b>Vitamin</b>							
Biotin	0.024	0.024	0.024	0.024	0.2	0.2	0.2
Choline Chloride	0.698	0.698	0.698	0.698	5	5	5
D-Calcium Pantothenate	0.715	0.715	0.715	0.715	0.2	0.2	0.2
Folic Acid	1.32	1.32	1.32	1.32	10	10	10
Niacinamide	0.615	0.615	0.615	0.615	0.5	0.5	0.5
Pyridoxine Hydrochloride	0.206	0.206	0.206	0.206	0.5	0.5	0.5
Riboflavin	0.376	0.376	0.376	0.376	0.2	0.2	0.2
Thiamine Hydrochlorid	1	1	1	1	0.2	0.2	0.2
Vitamin B12	1.36	1.36	1.36	1.36	2	2	2
Meso-inositol	0.541	0.541	0.541	0.541	36	36	36
<b>Others</b>							
D-Glucose	1100	1100	1100	1100	1100	1100	1100
Thymidine	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Hypoxanthine Sodium	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Lipoic Acid	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Sodium Pyruvate	110	110	110	110	110	110	110
HEPES	–	–	5958	5958	–	–	–
Phenol Red	1.2	1.2	1.2	1.2	1.2	1.2	–
Penicillin G Sodium Salt	–	100kU	–	100kU	–	–	–
Streptomycin Sulfate	–	100	–	100	–	–	–