



Diet
SF14-170

Replete Amino Acid AIN93G Modification

A semi-pure diet formulation for laboratory rats and mice using purified amino acids.

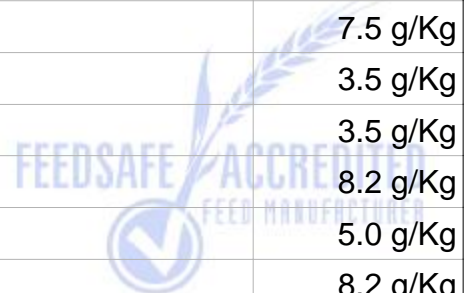
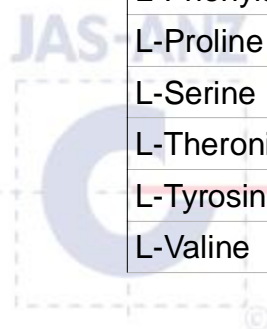
- Diet replete in all amino acids based on AIN93G Specification
- Individual amino acids inclusion rate is as reported by Gahel et al. (1991)

Calculated Nutritional Parameters as Fed	
Protein	17.5%
Total Fat	7.0%
Crude Fibre	4.7%
AD Fibre	4.7%
Digestible Energy	16.9 MJ / Kg
% Total calculated digestible energy from protein	15.2%
% Total calculated digestible energy from lipids	21.5%

Ingredients	
Sucrose	100 g/Kg
Canola Oil	70 g/Kg
Cellulose	50 g/Kg
Wheat Starch	422 g/Kg
Dextrinised Starch	132 g/Kg
L-Lysine HCl	18 g/Kg
L-Tryptophan	1.8 g/Kg
L-Alanine	3.5 g/Kg
L-Arginine	12.1 g/Kg
L-Asparagine	6.0 g/Kg
L-Aspartic Acid	3.5 g/Kg
L-Cystine	3.5 g/Kg
L-Glutamic Acid	40.0 g/Kg
Glycine	23.3 g/Kg
L-Histidine	4.5 g/Kg
L-Isoleucine	8.2 g/Kg
L-Leucine	11.1 g/Kg
L Methionine	8.5 g/Kg
L-Phenylalanine	7.5 g/Kg
L-Proline	3.5 g/Kg
L-Serine	3.5 g/Kg
L-Theronine	8.2 g/Kg
L-Tyrosine	5.0 g/Kg
L-Valine	8.2 g/Kg

Diet Form and Features

- Semi pure diet. 12 mm Pellets or available in dough form.
- Pack size 5 Kg, vacuum packed in oxygen impermeable plastic bags, under nitrogen. Bags are packed into cardboard cartons to protect them during transit. Smaller pack quantity on request.
- Diet suitable for irradiation but not suitable for autoclave.
- Lead time 2 weeks for non-irradiation or 4 weeks for irradiation.



Ingredients		Calculated Total Minerals as Fed	
Dicalcium Phosphate	4.9 g/Kg	Calcium	0.60%
Sodium Chloride	2.6 g/Kg	Phosphorous	0.30%
Potassium Citrate	1.0 g/Kg	Magnesium	0.13%
AIN93 Trace Minerals	1.4 g/Kg	Sodium	0.15%
Potassium Dihydrogen Phosphate	7.3 g/Kg	Chloride	0.16%
Potassium Sulphate	1.8 g/Kg	Potassium	0.35%
Magnesium Oxide	0.8 g/Kg	Sulphur	0.32%
Calcium Carbonate	13.9 g/Kg	Iron	70 mg/Kg
AIN93 Vitamins	10 g/Kg	Copper	7.1 mg/Kg
Choline Chloride 75%	2.6 g/Kg	Iodine	0.2 mg/Kg

Calculated Essential Amino Acids as Fed	
Valine	0.81%
Leucine	1.10%
Isoleucine	0.81%
Threonine	0.81%
Methionine	0.84%
Cysteine	0.34%
Lysine	1.40%
Phenylalanine	0.74%
Tyrosine	0.50%
Tryptophan	0.18%
Arginine	1.20%
Glycine	2.31%
Histidine	0.45%
Serine	0.35%

Manganese	20 mg/Kg
Cobalt	No data
Zinc	40 mg/Kg
Molybdenum	0.15 mg/Kg
Selenium	0.3 mg/Kg
Cadmium	No data
Chromium	1.0 mg/Kg
Fluoride	1.0 mg/Kg
Lithium	0.1 mg/Kg
Boron	1.8 mg/Kg
Nickel	0.5 mg/Kg
Vanadium	0.1 mg/Kg



Calculated Total Vitamins as Fed	
Vitamin A (Retinol)	4 000 IU/Kg
Vitamin D (Cholecalciferol)	1 000 IU/Kg
Vitamin E (a Tocopherol acetate)	78 mg/Kg
Vitamin K (Menadione)	1 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	6 mg/Kg
Vitamin B2 (Riboflavin)	6 mg/Kg
Niacin (Nicotinic acid)	30 mg/Kg
Vitamin B6 (Pryridoxine)	7 mg/Kg
Pantothenic Acid	16 mg/Kg
Biotin	200 ug/Kg
Folic Acid	2 mg/Kg
Inositol	None added
Vitamin B12 (Cyancobalamin)	100 ug/Kg
Choline	1470 mg/Kg

Calculated Fatty Acid Composition as Fed	
Saturated Fats C12:0 and less	0.01%
Myristic Acid 14:0	Trace
Palmitic Acid 16:0	0.30%
Stearic Acid 18:0	0.14%
Palmitoleic Acid 16:1	0.02%
Oleic Acid 18:1	3.89%
Gadoleic Acid 20:1	0.07%
Linoleic Acid 18:2 n6	1.51%
a Linolenic Acid 18:3 n3	0.98%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.98%
Total n6	1.51%
Total Saturated Fats	0.50%
Total Mono-Unsaturated Fats	3.98%
Total Polyunsaturated Fats	2.50%

Calculated data uses information from typical raw material composition. It could be expected that individual batches of diet will vary from this figure. **Diet post treatment by irradiation or auto clave could change these parameters.** We are happy to provide full calculated nutritional information for all of our products, however we would like to emphasise that these diets have been specifically designed for manufacture by Specialty Feeds.

