Specialty Feeds

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Diet
SF12-037

Fish Oil Modification of AIN93G

A semi-pure diet formulation for laboratory rats and mice based on AIN-93G. This formulation satisfies the nutritional requirements for growth of rats and mice. Some modifications have been made to the original formulation to suit locally available raw materials.

- In this modification Canola oil has been replaced with Numega fish oil and Safflower oil.

Calculated Nutritional Parameters

Protein	19.40%
Total Fat	7.00%
Crude Fibre	4.70%
AD Fibre	4.70%
Digestible Energy	16.3 MJ / Kg
% Total calculated digestible energy from lipids	16.00%
% Total calculated digestible energy from protein	21.00%

Diet Form and Features

- Semi pure diet. 12 mm diameter pellets.
- 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

Casein (Acid)	200 g/Kg
Sucrose	100 g/Kg
Numega Fish Oil	64 g/Kg
Safflower Oil	6 g/Kg
Cellulose	50 g/Kg
Wheat Starch	403 g/Kg
Dextrinised Starch	132 g/Kg
L Methionine	3.0 g/Kg
Calcium Carbonate	13.1 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals	1.4 g/Kg
Potassium Citrate	2.5 g/Kg
Potassium Dihydrogen Phosphate	6.9 g/Kg
Potassium Sulphate	1.6 g/Kg
Choline Chloride (75%)	2.5 g/Kg
Magnesium Oxide	1.2 g/Kg
AIN93 Vitamins	10 g/Kg

Calculated Amino Acids	
Valine	1.30%
Leucine	1.80%
Isoleucine	0.90%
Threonine	0.80%
Methionine	0.80%
Cysteine	0.06%
Lysine	1.50%
Phenylalanine	1.00%
Tyrosine	1.00%
Histidine	0.60%
Tryptophan	0.30%

Calculated Total Minerals	
Calcium	0.47%
Phosphorous	0.35%
Magnesium	0.15%
Sodium	0.15%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.23%
Iron	68 mg/Kg
Copper	7 mg/Kg
Iodine	0.2 mg/Kg
Manganese	19 mg/Kg
Cobalt	No data
Zinc	46 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	2.5 mg/Kg
Nickel	0.5 mg/Kg
Vanadium	0.1 mg/Kg

Calculated Total Vitamins	
Vitamin A (Retinol)	4 000 IU/Kg
Vitamin D (Cholecalciferol)	1 000 IU/Kg
Vitamin E (a Tocopherol acetate)	75 mg/Kg
Vitamin K (Menadione)	1 mg/Kg
Vitamin B1 (Thiamine)	6.1 mg/Kg
Vitamin B2 (Riboflavin)	6.3 mg/Kg
Niacin (Nicotinic acid)	30 mg/Kg
Vitamin B6 (Pryridoxine)	7 mg/Kg
Pantothenic Acid	16.5 mg/Kg
Biotin	200 ug/Kg
Folic Acid	2 mg/Kg
Vitamin B12 (Cyancobalamin)	103 ug/Kg
Choline	1 470 mg/Kg

Calculated Fatty Acid Composition	
Myristic Acid 14:0	0.19%
Palmitic Acid 16:0	1.22%
Stearic Acid 18:0	0.34%
Arachidic Acid 20:0	0.05%
Palmitoleic Acid 16:1	0.31%
Heptadecenoic Acid 17:1	0.05%
Oleic Acid 18:1	0.90%
Gadoleic Acid 20:1	0.05%
Linoleic Acid 18:2 n6	0.57%
a Linolenic Acid 18:3 n3	0.03%
g Linolenic Acid 18:3 n6	0.02%
Arachadonic Acid 20:4 n6	0.11%
EPA 20:5 n3	0.37%
DHA 22:6 n3	1.63%
Total n3	2.27%
Total n6	0.80%
Total Saturated Fats	1.95%
Total Mono unsaturated Fats	1.54%
Total Polyunsaturated Fats	3.09%

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.