



Diet SF03-002

36% Fat Modification of AIN93G (59% of Total Energy From Fats)

A very high fat semi-pure diet formulation for laboratory rats and mice based on AIN-93G.

- Total fat content has been increased to 36% fat. Using generally recognised energy data this would equate to a diet where 59% of total energy is from lipids.
- The fats included to make up the total fat content have been chosen to maximise diet palatability whilst retaining a good spread of fatty acids. All known fatty acid requirements have been met or exceeded.
- We would recommend that this diet be transported and stored at less than 15°C. At higher temperatures the diet softens considerably.
- Calculated digestible energy has increased as a result of the increased fat inclusion.
- Dietary carbohydrate content is from sucrose only. All starch has been removed from the diet. This has been done primarily to improve pellet strength but may also have some physiological implications.

Calculated Nutritional Parameters

Protein	19.40%
Total Fat	36.00%
Crude Fibre	4.70%
AD Fibre	4.70%
Digestible Energy	22.8 MJ / Kg
% Total calculated digestible energy from lipids	59.00%
% Total calculated digestible energy from protein	15.00%

Diet Form and Features

- Semi pure diet. 15mm x 20mm block to mimic similar size of pellet.
- Packed in plastic trays. Trays packed in groups of five (5). with layer of glad wrap between each to protect diet.
- Vacuum packed under nitrogen in oxygen impermeable bags. Packed in cardboard cartons for protection during transit.
- Diet must be stored at or below 15°C
- Diet not suitable for irradiation or autoclave
- Lead time 2 weeks

Ingredients	
Casein (Acid)	200 g/Kg
Sucrose	346 g/Kg
Canola Oil	60 g/Kg
Cocoa Butter	240 g/Kg
Hydrogenated Vegetable Oil (Cofpa)	60 g/Kg
Cellulose	50 g/Kg
DL 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
AIN93 Vitamins	10 g/Kg
Antioxidant (Oxicap E2)	0.04 g/Kg

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

Calculated Total Minerals	
Calcium	0.46%
Phosphorous	0.32%
Magnesium	0.09%
Sodium	0.12%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.20%
Iron	72 mg/Kg
Copper	7.0 mg/Kg
Iodine	0.2 mg/Kg
Manganese	18 mg/Kg
Cobalt	No data
Zinc	51 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	2.1 mg/Kg
Nickel	0.5 mg/Kg
Vanadium	0.1 mg/Kg

Calculated Total Vitamins		Calculated Fatty Acid Composition	
Vitamin A (Retinol)	4 000 IU/Kg	Saturated Fats C12:0 or less	3.20%
Vitamin D (Cholecalciferol)	1 000 IU/Kg	Myristic Acid 14:0	0.90%
Vitamin E (a Tocopherol acetate)	86 mg/Kg	Palmitic Acid 16:0	7.10%
Vitamin K (Menadione)	1 mg/Kg	Stearic Acid 18:0	9.30%
Vitamin C (Ascorbic acid)	None added	Arachidic Acid 20:0	0.30%
Vitamin B1 (Thiamine)	6.1 mg/Kg	Palmitoleic Acid 16:1	0.10%
Vitamin B2 (Riboflavin)	6.3 mg/Kg	Oleic Acid 18:1	12.00%
Niacin (Nicotinic acid)	30 mg/Kg	Gadoleic Acid 20:1	0.10%
Vitamin B6 (Pryridoxine)	7 mg/Kg	Linoleic Acid 18:2 n6	2.00%
Pantothenic Acid	16.5 mg/Kg	a Linolenic Acid 18:3 n3	0.70%
Biotin	200 ug/Kg	Arachadonic Acid 20:4 n6	No data
Folic Acid	2 mg/Kg	EPA 20:5 n3	Trace
Inositol	None added	DHA 22:6 n3	No data
Vitamin B12 (Cyancobalamin)	103 ug/Kg	Total n3	0.74%
Choline	1670 mg/Kg	Total n6	2.05%
		Total Mono Unsaturated Fats	12.20%
		Total Polyunsaturated Fats	2.79%
		Total Saturated Fats	20.92%

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.