



Diet
SF05-061

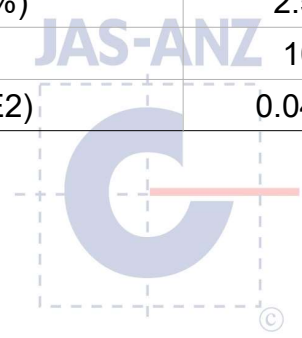
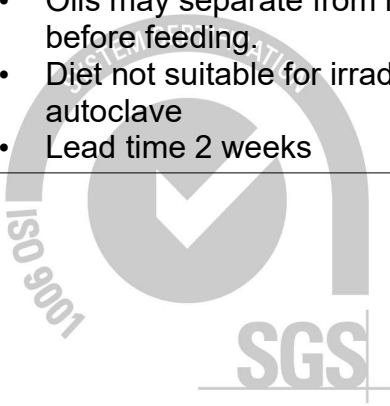
34% Fat Modification of AIN93G

A semi-pure diet formulation for laboratory rats and mice based on AIN-93G and diet presented in Kraegen et. al (1991), Development of diet-induced insulin resistance, *Diabetes*, volume 40.

- Total fat content has been increased to 34% fat. Using generally recognised energy data this would equate to a diet where 55% of total energy is from lipids.
- This formulation has been modified from the standard AIN-93G to have higher protein and 34% fat.

Calculated Nutritional Parameters		Ingredients	
Protein	26.30%	Casein (Acid)	254 g/Kg
Total Fat	33.80%	Gelatine	19 g/Kg
Crude Fibre	4.70%	Safflower Oil	339 g/Kg
AD Fibre	4.70%	Cellulose	51 g/Kg
Digestible Energy	22 MJ / Kg	Maize Starch	161 g/Kg
% Total calculated digestible energy from lipids	55.00%	Dextrinised Starch	132 g/Kg
% Total calculated digestible energy from protein	19.60%	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
		AIN93 Vitamins	10 g/Kg
		Antioxidant (Oxicap E2)	0.04 g/Kg

Diet Form and Features
<ul style="list-style-type: none"> • Semi pure diet. Dough Form • Packed in 5Kg plastic Buckets. • Packed in cardboard cartons for protection during transit. • Oils may separate from mixture. Mix well before feeding. • Diet not suitable for irradiation or autoclave • Lead time 2 weeks



Calculated Amino Acids as Fed	
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%
Tryptophan	0.30%
Histidine	0.78%

Calculated Total Minerals as Fed	
Calcium	0.48%
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 as Fed	
Vitamin A (Retinol)	4 000 IU/Kg
Vitamin D (Cholecalciferol)	1 000 IU/Kg
Vitamin E (a Tocopherol acetate)	89 mg/Kg
Vitamin K (Menadione)	1 mg/Kg
Vitamin C (Ascorbic acid)	None added
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
Inositol	None added
Vitamin B12 (Cyanocobalamin)	103 ug/Kg
Choline	1670 mg/Kg

Calculated Fatty Acid Composition as Fed	
Myristic Acid 14:0	0.05%
Palmitic Acid 16:0	2.14%
Stearic Acid 18:0	0.78%
Arachidic Acid 20:0	0.13%
Palmitoleic Acid 16:1	0.18%
Oleic Acid 18:1	4.14%
Gadoleic Acid 20:1	0.10%
Linoleic Acid 18:2 n6	26.04%
a Linolenic Acid 18:3 n3	0.04%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.04%
Total n6	26.04%
Total Mono Unsaturated Fats	4.55%
Total Polyunsaturated Fats	26.08%
Total Saturated Fats	3.24%

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 autoclave 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.