Specialty Feeds

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Diet SF00-251 — 20% Fat 0.15% Cholesterol Modification of AIN93M Rodent Diet

A semi-pure diet formulation for laboratory rats designed to mimic a high fat, high cholesterol diet in mature rodent studies.

- Dietary fats were chosen to include a range of saturated and mono-unsaturated fatty acids.
- The diet's "partner" is SF00-250 with a similar formulation but including 15% fat.
- In addition to the change in fat content some changes were made to fibre content and carbohydrate complexity.

Calculated Nutritional Parameters

Protein	13.60%
Total Fat	20.00%
Crude Fibre	6.50%
AD Fibre	6.50%
Digestible Energy	17.4 MJ / Kg
% Total calculated digestible energy from lipids	39.00%
% Total calculated digestible energy from protein	13.00%

Diet Form and Features

- Semi pure diet. 12 mm diameter pellets. Pack size 1.5 Kg trays, 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)	140 g/Kg
Sucrose	381 g/Kg
Sunflower Oil	100 g/Kg
Lard	100 g/Kg
Cellulose	100 g/Kg
Wheat Starch	82 g/Kg
Dextrinised Starch	80 g/Kg
DL Methionine	1.8 g/Kg
Calcium Carbonate	13.1 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals	1.4 g/Kg
Potassium Dihydrogen Phosphate	14 g/Kg
AIN93 Vitamins	10 g/Kg
Choline Chloride (75%)	2.5 g/Kg
USP Cholesterol	1.5 g/Kg

Calculated Amino Acids	
Valine	0.90%
Leucine	1.26%
Isoleucine	0.60%
Threonine	0.60%
Methionine	0.60%
Cystine	0.04%
Lysine	1.00%
Phenylanine	0.70%
Tyrosine	0.70%
Tryptophan	0.20%

Calculated Total Minerals	
Calcium	0.46%
Phosphorous	0.44%
Magnesium	0.09%
Sodium	0.13%
Chloride	0.16%
Potassium	0.43%
Sulphur	0.14%
Iron	74 mg/Kg
Copper	7.2 mg/Kg
Iodine	0.2 mg/Kg
Manganese	20 mg/Kg
Cobalt	No data
Zinc	49 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	
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 C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	6.1 mg/Kg
Vitamin B2 (Riboflavin)	6.2 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)	102 ug/Kg
Choline	1650 mg/Kg

Calculated Fatty Acid Composition	
Saturated Fat C12:0 or less	0.03%
Myristic Acid 14:0	0.16%
Palmitic Acid 16:0	3.20%
Stearic Acid 18:0	2.20%
Palmitoleic Acid 16:1	0.20%
Oleic Acid 18:1	5.50%
Gadoleic Acid 20:1	0.10%
Linoleic Acid 18:2 n6	7.98%
a Linolenic Acid 18:3 n3	0.22%
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.22%
Total n6	7.98%
Cholesterol	0.15%
Total Mono Unsaturated Fats	5.84%
Total Polyunsaturated Fats	8.25%
Total Saturated Fats	5.88%

Calculated data uses information from typical raw material composition. **Diet post treatment by irradiation or auto clave could change these parameters**. It could be expected that individual batches of diet will vary from this figure. 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.