



## Diet

### SF04-027

## 23% Fat Rodent Diet Based

A semi-pure high fat diet formulation for laboratory rats and mice based on Research Diets D12451. Some modifications have been made to the original formulation to suit locally available raw materials.

- Fatty acid profile of this diet has been modified from D12451 specifications
- 46% of total calculated energy is from lipids, 20% of total calculated energy from protein and the remainder from carbohydrates.
- We have evidence that vitamin losses can occur during irradiation at 25KGy. Please contact us for more information if the diet is to be irradiated.

### Calculated Nutritional Parameters

Protein	18.40%
Total Fat	23.50%
Crude Fibre	4.70%
AD Fibre	4.70%
Digestible Energy	17 MJ / Kg
% Total calculated digestible energy from lipids	46.00%
% Total calculated digestible energy from protein	20.00%

### Ingredients

Casein (Acid)	190 g/Kg
Sucrose	220 g/Kg
Canola Oil	50 g/Kg
Cocoa Butter	110 g/Kg
Hydrogenated Vegetable Oil (Cophera)	80 g/Kg
Cellulose	58 g/Kg
Maize Starch	112 g/Kg
Dextrinised Starch	116 g/Kg
DL Methionine	3.5 g/Kg
Calcium Carbonate	6.4 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals	1.6 g/Kg
Potassium Citrate	19.2 g/Kg
Dicalcium Phosphate	15.1 g/Kg
Potassium Sulphate	1.6 g/Kg
Choline Chloride (75%)	1.3 g/Kg
AIN93 Vitamins	12 g/Kg

### Diet Form and Features

- Semi pure high fat 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.

Calculated Amino Acids	
Valine	1.20%
Leucine	1.70%
Isoleucine	0.80%
Threonine	0.80%
Methionine	0.90%
Cystine	0.06%
Lysine	1.40%
Phenylalanine	1.00%
Tyrosine	1.00%
Tryptophan	0.30%

Calculated Total Minerals	
Calcium	0.60%
Phosphorous	0.40%
Magnesium	0.10%
Sodium	0.14%
Chloride	0.16%
Potassium	0.80%
Sulphur	0.20%
Iron	79 mg/Kg
Copper	9.2 mg/Kg
Iodine	0.23 mg/Kg
Manganese	24 mg/Kg
Cobalt	No data
Zinc	59 mg/Kg
Molybdenum	0.18 mg/Kg
Selenium	0.3 mg/Kg
Cadmium	No data
Chromium	1.2 mg/Kg
Fluoride	1.2 mg/Kg
Lithium	0.1 mg/Kg
Boron	2.7 mg/Kg
Nickel	0.6 mg/Kg
Vanadium	0.1 mg/Kg

Calculated Total Vitamins	
Vitamin A (Retinol)	4 700 IU/Kg
Vitamin D (Cholecalciferol)	1 200 IU/Kg
Vitamin E (a Tocopherol acetate)	90 mg/Kg
Vitamin K (Menadione)	1.2 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	7.1 mg/Kg
Vitamin B2 (Riboflavin)	7.3 mg/Kg
Niacin (Nicotinic acid)	35 mg/Kg
Vitamin B6 (Pryridoxine)	8 mg/Kg
Pantothenic Acid	19 mg/Kg
Biotin	233 ug/Kg
Folic Acid	2.4 mg/Kg
Inositol	None added
Vitamin B12 (Cyanocobalamin)	120 ug/Kg
Choline	890 mg/Kg

Calculated Fatty Acid Composition	
Saturated Fats C12:0 or less	4.20%
Myristic Acid 14:0	1.10%
Palmitic Acid 16:0	4.00%
Stearic Acid 18:0	4.80%
Palmitoleic Acid 16:1	Trace
Oleic Acid 18:1	7.40%
Gadoleic Acid 20:1	0.06%
Linoleic Acid 18:2 n6	1.50%
a Linolenic Acid 18:3 n3	0.60%
EPA 20:5 n3	Trace
DHA 22:6 n3	No data
Total n3	0.60%
Total n6	1.50%
Total Mono Unsaturated Fats	7.54%
Total Polyunsaturated Fats	2.07%
Total Saturated Fats	14.31%

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.