



## Diet SF04-019

## 20% Fat Rodent Diet Based on D12451

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.

- Fat content has been reduced from 23% to 20%
- 38% of calculated energy is from lipids.

Calculated Nutritional Parameters		Ingredients	
Protein	22.60%	Casein (Acid)	233 g/Kg
Total Fat	20.00%	Sucrose	201 g/Kg
Crude Fibre	5.40%	Lard	171 g/Kg
AD Fibre	5.40%	Soya Bean Oil	29 g/Kg
Digestible Energy	18 MJ / Kg	Cellulose	58 g/Kg
% Total calculated digestible energy from lipids	38.00%	Maize Starch	128 g/Kg
% Total calculated digestible energy from protein	22.00%	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	1.50%
Leucine	2.10%
Isoleucine	1.00%
Threonine	0.90%
Methionine	1.00%
Cystine	0.07%
Lysine	1.70%
Phenylalanine	1.20%
Tyrosine	1.20%
Tryptophan	0.30%

Calculated Total Minerals	
Calcium	0.60%
Phosphorous	0.50%
Magnesium	0.09%
Sodium	0.13%
Chloride	0.16%
Potassium	0.80%
Sulphur	0.25%
Iron	79 mg/Kg
Copper	9.0 mg/Kg
Iodine	0.23 mg/Kg
Manganese	23 mg/Kg
Cobalt	No data
Zinc	61 mg/Kg
Molybdenum	0.18 mg/Kg
Selenium	0.4 mg/Kg
Cadmium	No data
Chromium	1.2 mg/Kg
Fluoride	1.2 mg/Kg
Lithium	0.1 mg/Kg
Boron	2.1 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	0.05%
Myristic Acid 14:0	0.26%
Palmitic Acid 16:0	4.80%
Stearic Acid 18:0	3.10%
Other Saturated Fats	0.16%
Palmitoleic Acid 16:1	0.30%
Oleic Acid 18:1	6.40%
Gadoleic Acid 20:1	0.13%
Linoleic Acid 18:2 n6	3.90%
a Linolenic Acid 18:3 n3	0.43%
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.46%
Total n6	4.00%
Total Mono Unsaturated Fats	6.92%
Total Polyunsaturated Fats	4.52%
Total Saturated Fats	8.35%

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.