Specialty Feeds

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Diet
SF04-001

23.5% Fat Semi Pure Rodent Diet

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

- SF13-081 is the control diet for this formulation.
- We have evidence that vitamin losses and other changes to the diet can occur during irradiation at 25KGy. Please contact us for more information if the diet is to be irradiated.

Calculated Nutritional Parameters

Protein	20.90%
Total Fat	23.50%
Crude Fibre	5.40%
AD Fibre	5.40%
Digestible Energy	19 MJ / Kg
% Total calculated digestible energy from lipids	45.00%
% Total calculated digestible energy from protein	18.50%

Diet Form and Features

- Semi pure high fat diet. 12 mm diameter pellets.
- Pack size 2 Kg compostable cardboard 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.
- Diet is light pink in colour

Ingredients

Casein (Acid)	233 g/Kg
Sucrose	201 g/Kg
Lard	207 g/Kg
Soya Bean Oil	29 g/Kg
Cellulose	58 g/Kg
Wheat Starch	92 g/Kg
Dextrinised Starch	117 g/Kg
L 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

Calculated Amino Acids as Fed	
Valine	1.40%
Leucine	2.10%
Isoleucine	1.20%
Threonine	0.93%
Methionine	1.00%
Cysteine	0.07%
Lysine	1.90%
Phenylalanine	1.20%
Tyrosine	1.30%
Tryptophan	0.23%
Arginine	0.70%
Histidine	0.47%

Calculated Total Minerals as Fed	
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 as Fed	
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 (Cyancobalamin)	120 ug/Kg
Choline	1 230 mg/Kg

Calculated Fatty Acid Composition as Fed	
Saturated Fats C12:0 or less	Trace
Myristic Acid 14:0	0.32%
Palmitic Acid 16:0	5.80%
Stearic Acid 18:0	3.70%
Other Saturated Fats	0.10%
Palmitoleic Acid 16:1	0.40%
Oleic Acid 18:1	7.70%
Gadoleic Acid 20:1	0.20%
Linoleic Acid 18:2 n6	4.46%
a Linolenic Acid 18:3 n3	0.49%
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.52%
Total n6	4.50%
Total Mono Unsaturated Fats	8.24%
Total Poly Unsaturated Fats	5.11%
Total Saturated Fats	10.03%

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.