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Diet
SF04-025

High Lard Modification of AIN76 Semi-Pure Rodent Diet

A semi-pure high fat diet formulation for laboratory rats and mice based on AIN76. Some modifications have been made to the original formulation to suit locally available raw materials.

- 20% Lard has been added to the formulation in place of Canola oil, starch and sucrose.

Calculated Nutritional Parameters

Protein	19.40%
Total Fat	20.00%
Crude Fibre	4.70%
AD Fibre	4.70%
Digestible Energy	18.4 MJ / Kg
% Total calculated digestible energy from lipids	36.00%
% Total calculated digestible energy from protein	19.00%

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.

Ingredients

Casein (Acid)	200 g/Kg
Sucrose	396 g/Kg
Lard	200 g/Kg
Cellulose	50 g/Kg
Wheat Starch	100 g/Kg
Dextrinised Starch	117 g/Kg
L Methionine	3.0 g/Kg
Calcium Carbonate	11.3 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals	1.6 g/Kg
Potassium Citrate	2.5 g/Kg
Potassium Dihydrogen Phosphate	5.3 g/Kg
Potassium Sulphate	1.6 g/Kg
Choline Chloride (75%)	1.3 g/Kg
Mono-Calcium Phosphate	6.7 g/Kg
Magnesium Oxide	1.2 g/Kg
Sodium Cholate	1.0 g/Kg
Cholesterol	5.0 g/Kg
AIN93 Vitamins	10 g/Kg

Calculated Amino Acids	
Valine	1.30%
Leucine	1.80%
Isoleucine	0.90%
Threonine	0.80%
Methionine	0.80%
Cysteine	0.10%
Lysine	1.50%
Phenylalanine	1.00%
Tyrosine	1.00%
Histidine	0.60%
Tryptophan	0.30%

Calculated Total Minerals	
Calcium	0.50%
Phosphorous	0.40%
Magnesium	0.20%
Sodium	0.12%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.20%
Iron	71 mg/Kg
Copper	7.1 mg/Kg
Iodine	0.2 mg/Kg
Manganese	19 mg/Kg
Cobalt	No data
Zinc	52 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	2.2 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)	1.0 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)	7.2 mg/Kg
Pantothenic Acid	16.5 mg/Kg
Biotin	200 ug/Kg
Folic Acid	2.0 mg/Kg
Inositol	None added
Vitamin B12 (Cyancobalamin)	103 ug/Kg
Choline	1 670 mg/Kg

Calculated Fatty Acid Composition	
Saturated Fats C12:0 or less	0.10%
Myristic Acid 14:0	0.30%
Palmitic Acid 16:0	5.30%
Stearic Acid 18:0	3.40%
Palmitoleic Acid 16:1	0.30%
Oleic Acid 18:1	6.80%
Gadoleic Acid 20:1	0.20%
Linoleic Acid 18:2 n6	2.90%
a Linolenic Acid 18:3 n3	0.30%
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.31%
Total n6	2.90%
Total Cholesterol	0.50%
Total Mono Unsaturated Fats	7.32%
Total Polyunsaturated Fats	3.32%
Total Saturated Fats	9.30%

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.