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Diet
SF11-078

Modified AIN93G High SA Fat High Sucrose Cholesterol

A semi-pure high fat diet formulation for laboratory rats and mice based on AIN-93G.
- Diet has been modified to customer specifications
- Diet is reported in *Hepatology* Zhang et al. Gut 2021; 70: 761-774.

Calculated Nutritional Parameters	
Protein	17.9%
Total Fat	23.0%
Total Digestible Carbohydrate as defined by FSANZ Standard 1.2.8	46.5%
Crude Fibre	4.7%
AD Fibre	4.7%
Net Metabolisable Energy	18.4 MJ/Kg
Digestible Energy	19.1 MJ / Kg
% Total calculated energy from lipids	44.0% by DE 46.0% by NME
% Total calculated energy from protein	16.0% by DE 13.0% by NME

Diet Form and Features

- Semi pure 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.
- 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	424 g/Kg
Pre Gelled Wheat Starch	50 g/Kg
Canola Oil	50 g/Kg
Lard	181 g/Kg
Cellulose	50 g/Kg
L Methionine	3.0 g/Kg
Calcium Carbonate	13.1 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals	1.4 g/Kg
Potassium Citrate	2.5 g/Kg
Potassium Dihydrogen Phosphate	6.9 g/Kg
Potassium Sulphate	1.6 g/Kg
Choline Chloride (75%)	2.5 g/Kg
Cholesterol	1.9 g/Kg
AIN93 Vitamins	10 g/Kg

Calculated Amino Acids	
Valine	1.20%
Leucine	1.80%
Isoleucine	1.00%
Threonine	0.80%
Methionine	0.89%
Cysteine	0.06%
Lysine	1.60%
Phenylalanine	1.00%
Tyrosine	1.10%
Tryptophan	0.20%
Arginine	0.60%
Histidine	0.40%

Calculated Total Minerals	
Calcium	0.47%
Phosphorous	0.32%
Magnesium	0.10%
Sodium	0.12%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.23%
Iron	67 mg/Kg
Copper	7.1 mg/Kg
Iodine	0.2 mg/Kg
Manganese	19 mg/Kg
Cobalt	No data
Zinc	45 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)	77 mg/Kg
Vitamin K (Menadione)	1 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	6.1 mg/Kg
Vitamin B2 (Riboflavin)	6.3 mg/Kg
Niacin (Nicotinic acid)	30 mg/Kg
Vitamin B6 (Pryridoxine)	7 mg/Kg
Pantothenic Acid	16.5 mg/Kg
Biotin	200 ug/Kg
Folic Acid	2 mg/Kg
Inositol	None added
Vitamin B12 (Cyancobalamin)	103 ug/Kg
Choline	2 100 mg/Kg

Calculated Fatty Acid Composition	
Saturated Fat C12:0 and Less	0.07%
Myristic Acid 14:0	0.28%
Palmitic Acid 16:0	5.01%
Stearic Acid 18:0	3.21%
Palmitoleic Acid 16:1	0.32%
Oleic Acid 18:1	16.50%
Gadoleic Acid 20:1	0.18%
Linoleic Acid 18:2 n6	3.68%
a Linolenic Acid 18:3 n3	0.95%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.98%
Total n6	3.70%
Total Cholesterol	0.20%
Total Mono Unsaturated Fats	9.47%
Total Polyunsaturated Fats	4.79%
Total Saturated Fats	8.77%

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.