



Diet

SF09-001

High Fat Modification of VDRKO Rescue Diet

A semi-pure diet formulation for Vitamin D Receptor Knock-Out laboratory rats and mice based on AIN-93G. Some modifications have been made to the original formulation to suit locally available raw materials.

- Lactose has been included at 200 g/Kg
- Calcium has been increased to 2.0%
- Phosphorous has been increased to 1.2%
- Fat content has been increased to 25% by including 3% Safflower oil and 22% lard.
- We have evidence that vitamin losses and possibly other changes to the diet can occur when irradiated at 25Kgy. Please contact us for more information if the diet is to be irradiated.

Calculated Nutritional Parameters

Protein	19.40%
Total Fat	25.00%
Crude Fibre	4.70%
AD Fibre	4.70%
Digestible Energy	18.4 MJ / Kg
% Total calculated digestible energy from lipids	46.50%
% Total calculated digestible energy from protein	18.50%

Ingredients

Casein (Acid)	200 g/Kg
Lactose	200 g/Kg
Sucrose	100 g/Kg
Safflower Oil	30 g/Kg
Lard	220 g/Kg
Cellulose	50 g/Kg
Wheat Starch	96 g/Kg
Dextrinised Starch	132 g/Kg
DL Methionine	3.0 g/Kg
Calcium Carbonate	26 g/Kg
Dicalcium Phosphate	47 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
AIN93 Vitamins	10 g/Kg

Diet Form and Features

- Semi pure diet. 12 mm diameter pellets.
- Pack size 5 Kg, 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 not suitable for irradiation for autoclave.
- Lead time 2 weeks.

Calculated Amino Acids	
Valine	1.30%
Leucine	1.80%
Isoleucine	0.90%
Threonine	0.80%
Methionine	0.80%
Cystine	0.06%
Lysine	1.50%
Phenylalanine	1.00%
Tyrosine	1.00%
Histidine	0.60%
Tryptophan	0.30%

Calculated Total Minerals	
Calcium	2.00%
Phosphorous	1.20%
Magnesium	0.14%
Sodium	0.14%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.22%
Iron	120 mg/Kg
Copper	11.0 mg/Kg
Iodine	0.2 mg/Kg
Manganese	33 mg/Kg
Cobalt	No data
Zinc	55 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	3.0 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 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 (Cyanocobalamin)	103 ug/Kg
Choline	1670 mg/Kg

Calculated Fatty Acid Composition	
Saturated fats C12:0 and less	0.10%
Myristic Acid 14:0	0.30%
Palmitic Acid 16:0	6.10%
Stearic Acid 18:0	3.90%
Other Saturated Fats	0.20%
Palmitoleic Acid 16:1	0.40%
Oleic Acid 18:1	7.80%
Gadoleic Acid 20:1	0.20%
Linoleic Acid 18:2 n6	5.50%
a Linolenic Acid 18:3 n3	0.30%
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.50%
Total n6	5.50%
Total Mono Unsaturated Fats	8.45%
Total Polyunsaturated Fats	5.96%
Total Saturated Fats	10.51%

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.

