



## Diet SF06-053

## Soybean Free Rat and Mouse: Reformulated

A fixed formulation diet for laboratory rodents of all ages, based on our standard rat and mouse diet but free of soybean and lupins.

- This diet was designed to reduce phytoestrogen content. Gas chromatography – Mass spectrophotometry analysis indicates a range of phytosterols are present, however in bioassays the activity is very low or not detectable.
- Although several research groups have been using the diet for some time as a low phytoestrogen diet, care must be taken in contemplating the use of this diet as completely free of phytosterols activity.
- To be confident of a truly phytosterols free diet we recommend the semi-pure diet AIN93G.

### Calculated Nutritional Parameters

Protein	18.50%
Total Fat	5.00%
Crude Fibre	3.40%
Digestible Energy	14.3 MJ / Kg
% Total calculated digestible energy from protein	23.40%
% Total calculated digestible energy from lipids	15.00%

### Diet Form and Features

- Cereal grain base diet. 12 mm diameter pellets.
- Light green in colour.
- Pack size 5 Kg, vacuum packed under nitrogen in oxygen impermeable plastic bags. Bags are packed into cardboard cartons to protect them during transit. Smaller pack quantity on request.
- Diet suitable for irradiation, also suitable for autoclave.
- Lead time 2 weeks for non-irradiation or 4 weeks for irradiation.

### Ingredients

A fixed formulation ration using the following ingredients:  
Wheat, Mill mix, Fish meal, Refined Canola oil, Dicalcium phosphate, Lime sand, Salt, DL Methionine and a Vitamin and trace mineral premix.

### Added Trace Minerals

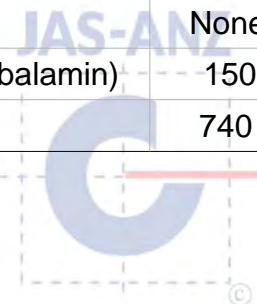
Magnesium	100 mg/Kg
Iron	70 mg/Kg
Copper	16 mg/Kg
Iodine	0.5 mg/Kg
Manganese	70 mg/Kg
Zinc	16 mg/Kg
Molybdenum	0.5 mg/Kg
Selenium	0.1 mg/Kg

Added Vitamins	
Vitamin A (Retinol)	10 000 IU/Kg
Vitamin D (Cholecalciferol)	2 000 IU/Kg
Vitamin E (a Tocopherol acetate)	100 mg/Kg
Vitamin K (Menadione)	20 mg/Kg
Vitamin B1 (Thiamine)	80 mg/Kg
Vitamin B2 (Riboflavin)	30 mg/Kg
Niacin (Nicotinic acid)	100 mg/Kg
Vitamin B6 (Pryridoxine)	25 mg/Kg
Calcium Pantothenate	50 mg/Kg
Biotin	300 ug/Kg
Folic Acid	5 mg/Kg
Vitamin B12 (Cyanocobalamin)	150 ug/Kg

Calculated Amino Acids	
Valine	1.00%
Leucine	1.40%
Isoleucine	0.70%
Threonine	0.70%
Methionine	0.40%
Cysteine	0.40%
Lysine	1.00%
Phenylalanine	0.80%
Tyrosine	0.60%
Tryptophan	0.20%
Histidine	0.50%

Calculated Total Minerals	
Calcium	1.00%
Phosphorous	0.80%
Magnesium	0.20%
Sodium	0.14%
Potassium	0.50%
Sulphur	0.12%
Iron	190 mg/Kg
Copper	24 mg/Kg
Iodine	0.5 mg/Kg
Manganese	124 mg/Kg
Cobalt	0.66 mg/Kg
Zinc	101 mg/Kg
Molybdenum	0.5 mg/Kg
Selenium	0.5 mg/Kg
Cadmium	Trace

Calculated Total Vitamins	
Vitamin A (Retinol)	10 000 IU/Kg
Vitamin D (Cholecalciferol)	2 000 IU/Kg
Vitamin E (a Tocopherol acetate)	116 mg/Kg
Vitamin K (Menadione)	20 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	85 mg/Kg
Vitamin B2 (Riboflavin)	32 mg/Kg
Niacin (Nicotinic acid)	163 mg/Kg
Vitamin B6 (Pryridoxine)	28 mg/Kg
Pantothenic Acid	63 mg/Kg
Biotin	366 ug/Kg
Folic Acid	5.5 mg/Kg
Inositol	None added
Vitamin B12 (Cyanocobalamin)	150 ug/Kg
Choline	740 mg/Kg



Calculated Fatty Acid Composition	
Myristic Acid 14:0	0.05%
Palmitic Acid 16:0	0.70%
Stearic Acid 18:0	0.10%
Palmitoleic Acid 16:1	No data
Oleic Acid 18:1	2.50%
Gadoleic Acid 20:1	0.06
Linoleic Acid 18:2 n6	1.60%
a Linolenic Acid 18:3 n3	0.50%
Arachadonic Acid 20:4 n6	Trace
EPA 20:5 n3	0.08%
DHA 22:6 n3	0.19%
Total n3	0.72%
Total n6	1.60%
Total Mono Unsaturated Fats	2.59%
Total Polyunsaturated Fats	2.40%
Total Saturated Fats	0.82%

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.

