



**Diet**  
**SF00-245**

**High Fat Mouse Diet Plus 1% Cholesterol**

A semi-pure modified AIN-93G. This formulation satisfies the nutritional requirements for growth of rats and mice. Diet has been modified to include 15% cocoa butter and 1% cholesterol.

- This diet was developed in collaboration with Judy DeHaan Klein (Institute of Reproduction and Development, Monash University).
- The diet relies heavily on two published papers 'Synthetic low and high fat diets for the study of arteriosclerosis in the mouse', Nishina et al, J Lipid Research Vol 31 1990 and 'The mouse as a model for human cardiovascular disease and hyperlipidaemia', Paigen et al. Current Opinion in Lipidology 1994, 5:258-264.
- We have received reports of a reduction in feed intake after prolonged feeding with some strains. This can be overcome by the use of food flavourings.
- In mouse model systems fat deposition is usually evident with 10 weeks.

Calculated Nutritional Parameters	
Protein	17.6%
Total Fat	16.0%
Crude Fibre	4.7%
AD Fibre	4.7%
Digestible Energy	17.6 MJ / Kg
% Total calculated digestible energy from lipids	33.0%
% Total calculated digestible energy from protein	17.0%

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. 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	520 g/Kg
Canola Oil	10 g/Kg
Cocoa Butter	150 g/Kg
Cellulose	51 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%)	10 g/Kg
Cholic Acid	5 g/Kg
Cholesterol USP	10 g/Kg
DL a Tocopherol Acetate (50%)	2.6 g/Kg
AIN93 Vitamins	10 g/Kg

Calculated Essential Amino Acids as Fed	
Valine	1.20%
Leucine	1.80%
Isoleucine	1.00%
Threonine	0.80%
Methionine	0.60%
Cysteine	0.10%
Lysine	1.60%
Phenylalanine	1.00%
Tyrosine	1.20%
Arginine	0.60%
Histidine	0.40%
Tryptophan	0.20%

Calculated Total Minerals as Fed	
Calcium	0.47%
Phosphorous	0.32%
Magnesium	0.06%
Sodium	0.12%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.16%
Iron	67 mg/Kg
Copper	7.2 mg/Kg
Iodine	0.2 mg/Kg
Manganese	18.9 mg/Kg
Cobalt	No data
Zinc	45 mg/Kg
Molybdenum	0.15 mg/Kg
Selenium	0.25 mg/Kg
Cadmium	No data
Chromium	1.0 mg/Kg
Fluoride	1.0 mg/Kg
Lithium	0.1 mg/Kg
Boron	1.3 mg/Kg
Nickel	0.5 mg/Kg
Vanadium	0.1 mg/Kg

Calculated Total Vitamins as Fed	
Vitamin A (Retinol)	4 000 IU/Kg
Vitamin D (Cholecalciferol)	1 000 IU/Kg
Vitamin E (a Tocopherol acetate)	1 380 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	7 500 mg/Kg

Calculated Fatty Acid Composition as Fed	
Myristic Acid 14:0	0.08%
Palmitic Acid 16:0	3.80%
Stearic Acid 18:0	5.40%
Arachidic Acid 20:0	0.18%
Palmitoleic Acid 16:1	Trace
Oleic Acid 18:1	5.40%
Gadoleic Acid 20:1	0.02%
Linoleic Acid 18:2 n6	0.70%
a Linolenic Acid 18:3 n3	0.18%
Arachadonic Acid 20:4 n6	No data
Total n3	0.18%
Total n6	0.71%
Cholesterol	1.00%
Total Mono Unsaturated Fats	5.50%
Total Polyunsaturated Fats	0.89%
Total Saturated Fats	9.60%

Calculated data uses information from typical raw material composition. **Diet post treatment by irradiation or autoclave could change these parameters.** It could be expected that individual batches of diet will vary from this

figure. 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.

