



Diet **21% Fat, 0.15% Cholesterol Semi-Pure Rodent Diet** **SF16-136** **Additional Vitamins**

A semi-pure high fat diet formulation for laboratory rats and mice based formulated to mimic a "Western fast food diet". This diet was originally formulated to be equivalent to *Harlan Teklad* TD88137 or *Research Diets* Western Diet D12079B. Some modifications have been made to the original formulation to suit locally available raw materials.

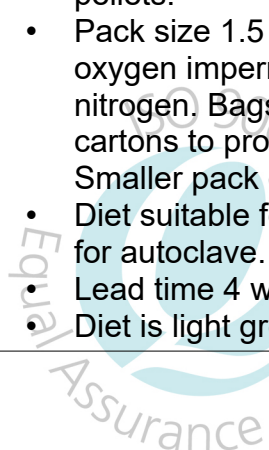
- This Diet was developed to generate arteriosclerotic lesions in a range of susceptible mice strains.
- We have evidence of significant vitamin loss after irradiation at 25 kGy. Vitamins have been increased.

Calculated Nutritional Parameters	
Protein	17.5%
Total Fat	20.8%
Crude Fibre	4.7%
AD Fibre	4.7%
Digestible Energy	18.3 MJ / Kg
% Total calculated digestible energy from lipids	42.0%
% Total calculated digestible energy from protein	16.0%

Ingredients	
Casein (Acid)	195 g/Kg
Sucrose	341 g/Kg
Clarified Butter (Ghee)	210 g/Kg
Cellulose	50 g/Kg
Wheat Starch	149 g/Kg
L Methionine	3.0 g/Kg
Calcium Carbonate	17.1 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals	1.4 g/Kg
Potassium Citrate	2.6 g/Kg
Potassium Dihydrogen Phosphate	6.9 g/Kg
Potassium Sulphate	1.6 g/Kg
Choline Chloride (75%)	2.5 g/Kg
SF00-219 Vitamins	15 g/Kg
Vitamin K 0.23%	0.87 g/Kg
Cholesterol	1.5 g/Kg
Oxicap E2	0.04 g/Kg

Diet Form and Features

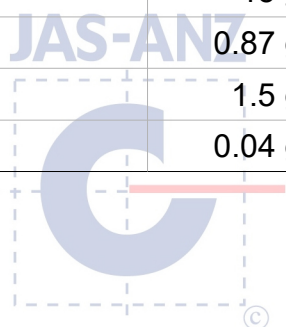
- Semi pure high fat diet. 12 mm diameter pellets.
- Pack size 1.5 Kg trays, vacuum packed in oxygen impermeable plastic bags, under nitrogen. Bags are packed into cardboard cartons to protect them during transit. Smaller pack quantity on request.
- Diet suitable for irradiation but not suitable for autoclave.
- Lead time 4 weeks for irradiation.
- Diet is light green in colour.



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Calculated Essential Amino Acids as Fed	
Valine	1.20%
Leucine	1.80%
Isoleucine	0.98%
Threonine	0.78%
Methionine	0.88%
Cysteine	0.06%
Lysine	1.60%
Phenylalanine	1.00%
Tyrosine	1.10%
Tryptophan	0.20%
Arginine	0.59%
Histidine	0.39%

Calculated Total Vitamins as Fed	
Vitamin A (Retinol)	16 650 IU/Kg
Vitamin D (Cholecalciferol)	1 650 IU/Kg
Vitamin E (a Tocopherol acetate)	96 mg/Kg
Vitamin K (Menadione)	21 mg/Kg
Vitamin C (Ascorbic acid)	1 050 mg/Kg
Vitamin B1 (Thiamine)	17 mg/Kg
Vitamin B2 (Riboflavin)	17 mg/Kg
Niacin (Nicotinic acid)	75 mg/Kg
Vitamin B6 (Pryridoxine)	17 mg/Kg
Pantothenic Acid	50 mg/Kg
Biotin	300 ug/Kg
Folic Acid	1.5 mg/Kg
Inositol	83 mg/Kg
Vitamin B12 (Cyanocobalamin)	25 ug/Kg
Choline	3 200 mg/Kg

Calculated Total Minerals as Fed	
Calcium	0.89%
Phosphorous	0.32%
Magnesium	0.06%
Sodium	0.12%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.23%
Iron	49 mg/Kg
Copper	7.0 mg/Kg
Iodine	0.2 mg/Kg
Manganese	16 mg/Kg
Cobalt	No data
Zinc	46 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	2.3 mg/Kg
Nickel	*0.5 mg/Kg†
Vanadium	0.1 mg/Kg

Calculated Fatty Acid Composition as Fed	
Saturated Fats C12:0 or less	1.70%
Myristic Acid 14:0	2.50%
Palmitic Acid 16:0	6.90%
Stearic Acid 18:0	2.30%
Palmitoleic Acid 16:1	0.21%
Oleic Acid 18:1	5.50%
Gadoleic Acid 20:1	No data
Linoleic Acid 18:2 n6	0.21%
a Linolenic Acid 18:3 n3	0.17%
Arachadonic Acid 20:4 n6	Trace
Total n3	0.35%
Total n6	0.25%
Cholesterol	0.15%
Total Mono Unsaturated Fats	5.90%
Total Polyunsaturated Fats	0.60%
Total Saturated Fats	13.70%

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.

