Specialty Feeds

3150 Great Eastern Hwy
Glen Forrest
Western Australia 6071
p: +61 8 9298 8111
F: +61 8 9298 8700
Email: info@specialtyfeeds.com

**Diet**
**SF11-032**

# Modified High Fat Rodent Diet Based on D12451

A semi-pure high fat diet formulation for laboratory rats and mice based on Research Diets D12451. Some modifications have been made to the original formulation to suit locally available raw materials.

- Diet has been modified to exclude lard from the formulation
- Omega3, 6, Monounsaturated, Polyunsaturated and Saturated Fats have been matched to be as similar as possible to SF04-001.
- We have evidence that vitamin losses and other changes to the diet can occur during irradiation at 25KGy. Please contact us for more information if the diet is to be irradiated.

## Calculated Nutritional Parameters

| | |
|---|---|
| Protein | 22.60% |
| Total Fat | 23.50% |
| Crude Fibre | 5.40% |
| AD Fibre | 5.40% |
| Digestible Energy | 19 MJ / Kg |
| % Total calculated digestible energy from lipids | 43.00% |
| % Total calculated digestible energy from protein | 21.00% |

## 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 2 weeks for non-irradiation or 4 weeks for irradiation.

## Ingredients

| | |
|---|---|
| Casein (Acid) | 233 g/Kg |
| Sucrose | 201 g/Kg |
| Clarified Butter (Ghee) | 133 g/Kg |
| Safflower Oil | 21 g/Kg |
| Soya Bean Oil | 42 g/Kg |
| Sunola Oil (High oleic Sunflower) | 40 g/Kg |
| Cellulose | 58 g/Kg |
| Wheat Starch | 92 g/Kg |
| Dextrinised Starch | 117 g/Kg |
| L Methionine | 3.5 g/Kg |
| Calcium Carbonate | 6.4 g/Kg |
| Sodium Chloride | 2.6 g/Kg |
| AIN93 Trace Minerals | 1.6 g/Kg |
| Potassium Citrate | 19.2 g/Kg |
| Dicalcium Phosphate | 15.1 g/Kg |
| Potassium Sulphate | 1.6 g/Kg |
| Choline Chloride (75%) | 1.3 g/Kg |
| AIN93 Vitamins | 12 g/Kg |

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| Calculated Essential Amino Acids as Fed | |
|---|---|
| Valine | 1.50% |
| Leucine | 2.10% |
| Isoleucine | 1.00% |
| Threonine | 0.90% |
| Methionine | 1.00% |
| Cystine | 0.07% |
| Lysine | 1.70% |
| Phenylalanine | 1.20% |
| Tyrosine | 1.20% |
| Histidine | 0.70% |
| Tryptophan | 0.30% |

| Calculated Total Minerals as Fed | |
|---|---|
| Calcium | 0.60% |
| Phosphorous | 0.50% |
| Magnesium | 0.09% |
| Sodium | 0.13% |
| Chloride | 0.16% |
| Potassium | 0.80% |
| Sulphur | 0.25% |
| Iron | 79 mg/Kg |
| Copper | 9.0 mg/Kg |
| Iodine | 0.23 mg/Kg |
| Manganese | 23 mg/Kg |
| Cobalt | No data |
| Zinc | 61 mg/Kg |
| Molybdenum | 0.18 mg/Kg |
| Selenium | 0.4 mg/Kg |
| Cadmium | No data |
| Chromium | 1.2 mg/Kg |
| Fluoride | 1.2 mg/Kg |
| Lithium | 0.1 mg/Kg |
| Boron | 2.1 mg/Kg |
| Nickel | 0.6 mg/Kg |
| Vanadium | 0.1 mg/Kg |

| Calculated Total Vitamins as Fed | |
|---|---|
| Vitamin A (Retinol) | 4 700 IU/Kg |
| Vitamin D (Cholecalciferol) | 1 200 IU/Kg |
| Vitamin E (a Tocopherol acetate) | 90 mg/Kg |
| Vitamin K (Menadione) | 1.2 mg/Kg |
| Vitamin C (Ascorbic acid) | None added |
| Vitamin B1 (Thiamine) | 7.1 mg/Kg |
| Vitamin B2 (Riboflavin) | 7.3 mg/Kg |
| Niacin (Nicotinic acid) | 35 mg/Kg |
| Vitamin B6 (Pryridoxine) | 8 mg/Kg |
| Pantothenic Acid | 19 mg/Kg |
| Biotin | 233 ug/Kg |
| Folic Acid | 2.4 mg/Kg |
| Inositol | None added |
| Vitamin B12 (Cyancobalamin) | 120 ug/Kg |
| Choline | 890 mg/Kg |

| Calculated Fatty Acid Composition as Fed | |
|---|---|
| Saturated Fats C12:0 or less | 1.16% |
| Myristic Acid 14:0 | 1.64% |
| Palmitic Acid 16:0 | 5.15% |
| Stearic Acid 18:0 | 1.87% |
| Other Saturated Fats | 0.19% |
| Palmitoleic Acid 16:1 | 0.29% |
| Oleic Acid 18:1 | 7.77% |
| Gadoleic Acid 20:1 | 0.03% |
| Linoleic Acid 18:2 n6 | 4.43% |
| a Linolenic Acid 18:3 n3 | 0.42% |
| EPA 20:5 n3 | No data |
| DHA 22:6 n3 | No data |
| Total n3 | 0.55% |
| Total n6 | 4.50% |
| Total Mono Unsaturated Fats | 8.32% |
| Total Poly Unsaturated Fats | 5.05% |
| Total Saturated Fats | 10.00% |

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.