



Diet SF07-080 18% Fat, 2.5% Haemoglobin, 0.1% Calcium, 0.2% Phosphorous Semi-Pure Rodent Diet

A semi-pure diet formulation for laboratory rats and mice based on AIN-93G. This formulation satisfies the nutritional requirements for growth of rats and mice. Some modifications have been made to the original formulation to suit locally available raw materials.

- Canola Oil has been removed from the diet. Clarified Butter fat has been added at 18%.
- Sucrose has been increased from 10% to 34%
- Dextrinised starch has been removed from the diet and wheat starch has been reduced from 42% to 19%.
- Haemoglobin has been added at 2.5%
- Calcium has been decreased to 0.1% and phosphorous decreased to 0.17%
- No mineral phosphorous sources have been included, all calculated P is from other raw materials included in the diet. The bio-availability of this P is not completely clear.

| Calculated Nutritional Parameters | |
|---|------------|
| Protein | 19.40% |
| Total Fat | 18.00% |
| Crude Fibre | 4.70% |
| AD Fibre | 4.70% |
| Digestible Energy | 19 MJ / Kg |
| % Total calculated digestible energy from lipids | 35.0% |
| % Total calculated digestible energy from protein | 18.0% |

| Ingredients | |
|------------------------|----------|
| Casein (Acid) | 175 g/Kg |
| Sucrose | 340 g/Kg |
| Clarified Butter Fat | 180 g/Kg |
| Cellulose | 50 g/Kg |
| Wheat Starch | 189 g/Kg |
| DL Methionine | 3.0 g/Kg |
| Calcium Carbonate | 2.1 g/Kg |
| Sodium Chloride | 3.0 g/Kg |
| AIN93 Trace Minerals | 1.4 g/Kg |
| Haemoglobin | 25 g/Kg |
| Potassium Citrate | 2.5 g/Kg |
| Potassium Sulphate | 5.0 g/Kg |
| Choline Chloride (75%) | 2.5 g/Kg |
| Magnesium Oxide | 1.3 g/Kg |
| AIN93 Vitamins | 10 g/Kg |
| Cholesterol | 10 g/Kg |

Diet Form and Features

- Semi pure 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.
- Diet suitable for irradiation but not suitable for autoclave.
- Lead time 2 weeks for non-irradiation or 4 weeks for irradiation.



| 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% |
| Tryptophan | 0.30% |

| Calculated Total Minerals | |
|---|------------|
| Calcium | 0.12% |
| Phosphorous (Mostly from casein and starch) | 0.19% |
| Magnesium | 0.07% |
| Sodium | 0.13% |
| Chloride | 0.16% |
| Potassium | 0.42% |
| Sulphur | 0.25% |
| Iron | 144 mg/Kg |
| Copper | 7.1 mg/Kg |
| Iodine | 0.2 mg/Kg |
| Manganese | 16 mg/Kg |
| Cobalt | No data |
| Zinc | 47 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 | 1.6 mg/Kg |
| Nickel | 0.5 mg/Kg |
| Vanadium | 0.1 mg/Kg |

| Calculated Total Vitamins | |
|----------------------------------|-------------|
| Vitamin A (Retinol) | 5 410 IU/Kg |
| Vitamin D (Cholecalciferol) | 1 000 IU/Kg |
| Vitamin E (a Tocopherol acetate) | 77 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 | 1.57% |
| Myristic Acid 14:0 | 2.20% |
| Palmitic Acid 16:0 | 6.00% |
| Stearic Acid 18:0 | 2.01% |
| Palmitoleic Acid 16:1 | 0.36% |
| Oleic Acid 18:1 | 4.68% |
| Gadoleic Acid 20:1 | No data |
| Linoleic Acid 18:2 n6 | 0.30% |
| a Linolenic Acid 18:3 n3 | 0.15% |
| Arachadonic Acid 20:4 n6 | 0.02% |
| Cholesterol | 1.00% |
| Total n3 | 0.30% |
| Total n6 | 0.36% |
| Total Mono Unsaturated Fats | 5.34% |
| Total Poly Unsaturated Fats | 0.66% |
| Total Saturated Fats | 12.00% |

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 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.