



## Diet SF12-030

## 5% Fat SF05-034 Modification

A semi-pure low fat diet formulation for laboratory rats and mice based on SF05-034.

- Vitamin D has been added back to this diet for a final inclusion of 2200 IU/Kg.
- Calcium, Phosphorous and Magnesium have been increased in this ration over the standard AIN93G diet.
- Fat content has been reduced from 7-5% this has resulted in a reduction in digestible energy.
- Wheat starch content has increased accordingly.

| Calculated Nutritional Parameters                 |              |
|---|--------------|
| Protein   | 19.40%       |
| Total Fat   | 5.00%        |
| Crude Fibre                                       | 4.70%        |
| AD Fibre  | 4.70%        |
| Digestible Energy                                 | 15.5 MJ / Kg |
| % Total calculated digestible energy from lipids  | 12.00%       |
| % Total calculated digestible energy from protein | 22.00%       |

| Ingredients                                |           |
|--|-----------|
| Casein (Acid)                              | 200 g/Kg  |
| Sucrose                                    | 100 g/Kg  |
| Canola Oil                                 | 50 g/Kg   |
| Cellulose                                  | 50 g/Kg   |
| Wheat Starch                               | 402 g/Kg  |
| Dextrinised Starch                         | 132 g/Kg  |
| L Methionine                               | 3.0 g/Kg  |
| Calcium Carbonate                          | 15.0 g/Kg |
| Sodium Chloride                            | 2.6 g/Kg  |
| AIN93 Trace Minerals                       | 1.4 g/Kg  |
| Potassium Citrate                          | 2.5 g/Kg  |
| Dicalcium Phosphate                        | 19.6 g/Kg |
| Potassium Dihydrogen Phosphate             | 4.2 g/Kg  |
| Potassium Sulphate                         | 2.7 g/Kg  |
| Choline Chloride (75%)                     | 2.5 g/Kg  |
| Magnesium Oxide                            | 2.4 g/Kg  |
| Ferrous Sulphate                           | 0.1 g/Kg  |
| Mangenuous Oxide                           | 0.01 g/Kg |
| Vitamin D Supplement (28 500 IU/g)         | 0.08 g/Kg |
| Modified AIN93 Vitamins No Added Vitamin D | 10 g/Kg   |

### Diet Form and Features

- Semi pure low fat diet. 12 mm diameter pellets.
- Pack size 5 Kg , 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.
- Diet is light orange in colour

| Calculated Amino Acids as Fed |       |
|-------------------------------|-------|
| Valine                        | 1.26% |
| Leucine                       | 1.80% |
| Isoleucine                    | 0.87% |
| Threonine                     | 0.79% |
| Methionine                    | 0.84% |
| Cysteine                      | 0.05% |
| Lysine                        | 1.49% |
| Phenylalanine                 | 0.99% |
| Tyrosine                      | 1.04% |
| Histidine                     | 0.60% |
| Tryptophan                    | 0.30% |

| Calculated Total Minerals as Fed |            |
|----------------------------------|------------|
| Calcium                          | 1.00%      |
| Phosphorous                      | 0.65%      |
| Magnesium                        | 0.23%      |
| Sodium                           | 0.15%      |
| Chloride                         | 0.16%      |
| Potassium                        | 0.40%      |
| Sulphur                          | 0.25%      |
| Iron                             | 120 mg/Kg  |
| Copper                           | 9.0 mg/Kg  |
| Iodine                           | 0.2 mg/Kg  |
| Manganese                        | 31 mg/Kg   |
| Cobalt                           | No data    |
| Zinc                             | 48 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                            | 2.5 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)      | 2 200 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                 | 17 mg/Kg    |
| Biotin                           | 200 ug/Kg   |
| Folic Acid                       | 2 mg/Kg     |
| Inositol                         | None added  |
| Vitamin B12 (Cyanocobalamin)     | 103 ug/Kg   |
| Choline                          | 1 470 mg/Kg |

| Calculated Fatty Acid Composition as Fed |         |
|--|---------|
| Saturated Fats C12:0 or less             | 0.01%   |
| Myristic Acid 14:0                       | Trace   |
| Palmitic Acid 16:0                       | 0.21%   |
| Stearic Acid 18:0                        | 0.10%   |
| Palmitoleic Acid 16:1                    | 0.01%   |
| Oleic Acid 18:1                          | 2.78%   |
| Gadoleic Acid 20:1                       | 0.05%   |
| Linoleic Acid 18:2 n6                    | 1.08%   |
| a Linolenic Acid 18:3 n3                 | 0.70%   |
| EPA 20:5 n3                              | No data |
| DHA 22:6 n3                              | No data |
| Total n3                                 | 0.70%   |
| Total n6                                 | 1.08%   |
| Total Mono Unsaturated Fats              | 2.85%   |
| Total Polyunsaturated Fats               | 1.78%   |
| Total Saturated Fats                     | 0.36%   |

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.