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**Diet**

# SF21-019 Resistant Starch Modified SF13-081

A semi-pure low fat diet formulation for laboratory rats and mice based on SF13-081.

- Dextrinised starch has been replaced with a high resistant starch Gemstar RS.
- Fibre compont of Gemstar RS is assumed to be crude fibre.
- No other changes have been made to the formulation
- Diet is control for SF21-018
- Vitamins have been increased for irradiation
- See data sheet SF13-081 for more information on the base diet.

## Calculated Nutritional Parameters

| | |
|---|---|
| Protein | 23.0% |
| Total Fat | 5.3% |
| Crude Fibre | 15.3% |
| AD Fibre | 15.3% |
| Digestible Energy | 13.6 MJ / Kg |
| % Total calculated digestible energy from lipids | 13.9% |
| % Total calculated digestible energy from protein | 27.8% |

## 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.

## Ingredients

| | |
|---|---|
| Casein (Acid) | 233 g/Kg |
| Sucrose | 201 g/Kg |
| Lard | 23 g/Kg |
| Soya Bean Oil | 29 g/Kg |
| Cellulose | 58 g/Kg |
| Wheat Starch | 275 g/Kg |
| GemStar RS 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 | 16.5 g/Kg |
| Vitamin K 0.23% | 0.87 g/Kg |

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| Calculated Amino Acids as Fed | |
|---|---|
| Valine | 1.19% |
| Leucine | 1.63% |
| Isoleucine | 0.90% |
| Threonine | 0.75% |
| Methionine | 0.79% |
| Cysteine | 0.07% |
| Lysine | 1.35% |
| Phenylalanine | 0.89% |
| Tyrosine | 0.94% |
| Tryptophan | 0.16% |
| Histidine | 0.50% |

| Calculated Total Minerals as Fed | |
|---|---|
| Calcium | 0.69% |
| Phosphorous | 0.48% |
| Magnesium | 0.08% |
| Sodium | 0.14% |
| Chloride | 0.16% |
| Potassium | 0.83% |
| Sulphur | 0.26% |
| Iron | 70 mg/Kg |
| Copper | 9.4 mg/Kg |
| Iodine | 0.2 mg/Kg |
| Manganese | 22 mg/Kg |
| Cobalt | No data |
| Zinc | 55 mg/Kg |
| Molybdenum | 0.17 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 | 1.8 mg/Kg |
| Nickel | 0.6 mg/Kg |
| Vanadium | 0.1 mg/Kg |

| Calculated Total Vitamins as Fed | |
|---|---|
| Vitamin A (Retinol) | 6 660 IU/Kg |
| Vitamin D (Cholecalciferol) | 1 670 IU/Kg |
| Vitamin E (a Tocopherol acetate) | 126 mg/Kg |
| Vitamin K (Menadione) | 3.7 mg/Kg |
| Vitamin C (Ascorbic acid) | None added |
| Vitamin B1 (Thiamine) | 10.1 mg/Kg |
| Vitamin B2 (Riboflavin) | 10.3 mg/Kg |
| Niacin (Nicotinic acid) | 50 mg/Kg |
| Vitamin B6 (Pryridoxine) | 12 mg/Kg |
| Pantothenic Acid | 27 mg/Kg |
| Biotin | 333 ug/Kg |
| Folic Acid | 3.4 mg/Kg |
| Inositol | None added |
| Vitamin B12 (Cyancobalamin) | 170 ug/Kg |
| Choline | 1 190 mg/Kg |

| Calculated Fatty Acid Composition as fed | |
|---|---|
| Saturated Fats C12:0 or less | Trace |
| Myristic Acid 14:0 | 0.04% |
| Palmitic Acid 16:0 | 0.92% |
| Stearic Acid 18:0 | 0.51% |
| Palmitoleic Acid 16:1 | 0.05% |
| Oleic Acid 18:1 | 1.45% |
| Gadoleic Acid 20:1 | 0.02% |
| Linoleic Acid 18:2 n6 | 1.82% |
| a Linolenic Acid 18:3 n3 | 0.23% |
| EPA 20:5 n3 | No data |
| DHA 22:6 n3 | No data |
| Total n3 | 0.23% |
| Total n6 | 1.82% |
| Total Mono Unsaturated Fats | 1.53% |
| Total Polyunsaturated Fats | 2.07% |
| Total Saturated Fats | 1.50% |

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.