



Diet SF14-169 **Low Phenylalanine Purified Amino Acid Modification of AIN93G**

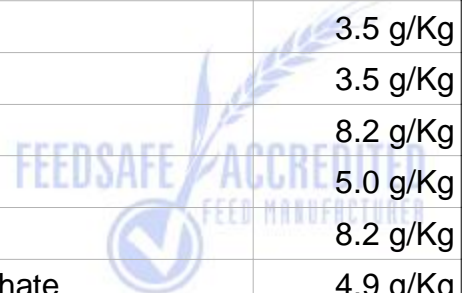
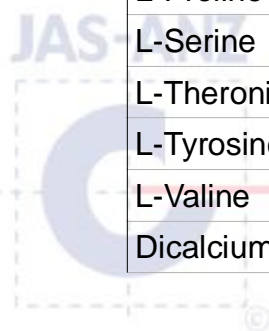
A semi-pure diet formulation for laboratory rats and mice using purified amino acids.

- Low Phenylalanine purified amino acid diet based on Ain93G specifications.
- Individual Amino Acid inclusions rates based on inclusion rates reported by Gahel et.al (1991)

| Calculated Nutritional Parameters as Fed | |
|---|-------------|
| Protein | 16.8% |
| Total Fat | 7.0% |
| Crude Fibre | 4.7% |
| AD Fibre | 4.7% |
| Digestible Energy | 16.9MJ / Kg |
| % Total calculated digestible energy from protein | 15.2% |
| % Total calculated digestible energy from lipids | 20.6% |

| Ingredients | |
|---------------------|-----------|
| Sucrose | 100 g/Kg |
| Canola Oil | 70 g/Kg |
| Cellulose | 50 g/Kg |
| Wheat Starch | 429 g/Kg |
| Dextrinised Starch | 132 g/Kg |
| L-Lysine HCl | 18 g/Kg |
| L-Tryptophan | 1.8 g/Kg |
| L-Alanine | 3.5 g/Kg |
| L-Arginine | 12.1 g/Kg |
| L-Asparagine | 6.0 g/Kg |
| L-Aspartic Acid | 3.5 g/Kg |
| L-Cystine | 3.5 g/Kg |
| L-Glutamic Acid | 40.0 g/Kg |
| Glycine | 23.3 g/Kg |
| L-Histidine | 4.5 g/Kg |
| L-Isoleucine | 8.2 g/Kg |
| L-Leucine | 11.1 g/Kg |
| L Methionine | 8.5 g/Kg |
| L-Proline | 3.5 g/Kg |
| L-Serine | 3.5 g/Kg |
| L-Theronine | 8.2 g/Kg |
| L-Tyrosine | 5.0 g/Kg |
| L-Valine | 8.2 g/Kg |
| Dicalcium Phosphate | 4.9 g/Kg |

| Diet Form and Features |
|---|
| <ul style="list-style-type: none"> • Semi pure diet. 12 mm Pellets or available in dough form. • 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 | |
|--------------------------------|-----------|
| Sodium Chloride | 2.6 g/Kg |
| Potassium Citrate | 1.0 g/Kg |
| AIN93 Trace Minerals | 1.4 g/Kg |
| Potassium Dihydrogen Phosphate | 7.2 g/Kg |
| Potassium Sulphate | 1.8 g/Kg |
| Magnesium Oxide | 0.8 g/Kg |
| Calcium Carbonate | 13.9 g/Kg |
| AIN93 Vitamins | 10 g/Kg |
| Choline Chloride 75% | 2.6 g/Kg |

| Calculated Essential Amino Acids as Fed | |
|---|---------|
| Valine | 0.81% |
| Leucine | 1.10% |
| Isoleucine | 0.81% |
| Threonine | 0.81% |
| Methionine | 0.84% |
| Cysteine | 0.34% |
| Lysine | 1.40% |
| Phenylalanine | No Data |
| Tyrosine | 0.50% |
| Tryptophan | 0.18% |
| Arginine | 1.20% |
| Glycine | 2.31% |
| Histidine | 0.45% |
| Serine | 0.35% |

| Calculated Total Minerals as Fed | |
|----------------------------------|------------|
| Calcium | 0.60% |
| Phosphorous | 0.30% |
| Magnesium | 0.13% |
| Sodium | 0.15% |
| Chloride | 0.16% |
| Potassium | 0.35% |
| Sulphur | 0.32% |
| Iron | 71 mg/Kg |
| Copper | 7.1 mg/Kg |
| Iodine | 0.2 mg/Kg |
| Manganese | 20 mg/Kg |
| Cobalt | No data |
| Zinc | 40 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 | 1.8 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) | 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 mg/Kg |
| Vitamin B2 (Riboflavin) | 6 mg/Kg |
| Niacin (Nicotinic acid) | 30 mg/Kg |
| Vitamin B6 (Pryridoxine) | 7 mg/Kg |
| Pantothenic Acid | 16 mg/Kg |
| Biotin | 200 ug/Kg |
| Folic Acid | 2 mg/Kg |
| Inositol | None added |
| Vitamin B12 (Cyancobalamin) | 100 ug/Kg |
| Choline | 1470 mg/Kg |

| Calculated Fatty Acid Composition as Fed | |
|--|---------|
| Saturated Fats C12:0 and less | 0.01% |
| Myristic Acid 14:0 | Trace |
| Palmitic Acid 16:0 | 0.30% |
| Stearic Acid 18:0 | 0.14% |
| Palmitoleic Acid 16:1 | 0.02% |
| Oleic Acid 18:1 | 3.89% |
| Gadoleic Acid 20:1 | 0.07% |
| Linoleic Acid 18:2 n6 | 1.51% |
| a Linolenic Acid 18:3 n3 | 0.98% |
| Arachadonic Acid 20:4 n6 | No data |
| EPA 20:5 n3 | No data |
| DHA 22:6 n3 | No data |
| Total n3 | 0.98% |
| Total n6 | 1.51% |
| Total Saturated Fats | 0.50% |
| Total Mono-Unsaturated Fats | 3.98% |
| Total Polyunsaturated Fats | 2.50% |

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 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.

