



**Diet**  
**SF16-034**

**Research Diets A06071304 Equivalent**

A semi-pure diet formulation for laboratory rats and mice using purified amino acids designed to be equivalent to Research Diets A06071304. Some modifications have been made to the original formulation to suit locally available raw materials.

- Diet replete in all amino acids based on A06071304 Specification

Calculated Nutritional Parameters as Fed	
Protein	20.8%
Total Fat	24.1%
Total Digestible Carbohydrate as defined by FSA NZ Standard 1.2.8	39.7%
Crude Fibre	5.6%
AD Fibre	5.6%
Net Metabolisable Energy	19.4 MJ/Kg
Digestible Energy	19.9 MJ / Kg
% Total calculated digestible energy from protein	17.4%
% Total calculated digestible energy from lipids	44.0%

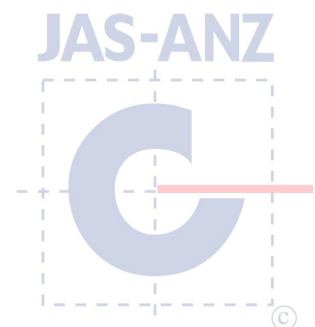
Diet Form and Features	
•	Semi pure diet. 12 mm Pellets or available in dough form.
•	Pack size 1.5 Kg, vacuum packed in oxygen impermeable plastic bags, under nitrogen. Bags are packed into cardboard cartons to protect them during transit. Smaller pack quantity on request.
•	Diet suitable for irradiation but not suitable for autoclave.
•	Lead time 2 weeks for non-irradiation or 4 weeks for irradiation.
•	Diet is light orange in colour.

Ingredients	
Sucrose	206 g/Kg
Soya Bean Oil	30 g/Kg
Lard	212 g/Kg
Cellulose	60 g/Kg
Wheat Starch	87 g/Kg
Dextrinised Starch	119 g/Kg
L-Lysine HCl	15.8 g/Kg
L-Tryptophan	2.5 g/Kg
L-Alanine	6.1 g/Kg
L-Arginine	7.2 g/Kg
L-Aspartic Acid	14.5 g/Kg
L-Cystine	5.0 g/Kg
L-Glutamic Acid	45.6 g/Kg
Glycine	3.6 g/Kg
L-Histidine	5.5 g/Kg
L-Isoleucine	9.1 g/Kg
L-Leucine	18.9 g/Kg
L-Methionine	6.1 g/Kg
L-Phenylalanine	10.0 g/Kg
L-Proline	21.3 g/Kg
L-Serine	12.0 g/Kg
L-Threonine	8.6 g/Kg
L-Tyrosine	11.0 g/Kg
L-Valine	11.1 g/Kg

Ingredients	
AIN93 Trace Minerals	1.7 g/Kg
Calcium Carbonate	6.6 g/Kg
Sodium Chloride	3.1 g/Kg
Sodium BiCarbonate	9.0 g/Kg
Potassium Sulphate	1.9 g/Kg
Potassium Citrate	19.7 g/Kg
Dicalcium Phosphate	15.5 g/Kg
AIN93 Vitamins	12 g/Kg
Choline Chloride 75%	2.6 g/Kg

Calculated Essential Amino Acids as Fed	
Valine	1.10%
Leucine	1.87%
Isoleucine	0.90%
Threonine	0.85%
Methionine	0.60%
Cysteine	0.98%
Lysine	1.55%
Phenylalanine	0.99%
Tyrosine	1.09%
Tryptophan	0.25%
Arginine	0.71%
Glycine	0.35%
Histidine	0.54%
Serine	1.18%

Calculated Total Minerals as Fed	
Calcium	0.69%
Phosphorous	0.30%
Magnesium	0.07%
Sodium	0.41%
Chloride	0.19%
Potassium	0.85%
Sulphur	0.31%
Iron	70 mg/Kg
Copper	9.2 mg/Kg
Iodine	0.24 mg/Kg
Manganese	20 mg/Kg
Cobalt	No data
Zinc	47 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	0.7 mg/Kg
Vanadium	0.1 mg/Kg



Calculated Total Vitamins as Fed	
Vitamin A (Retinol)	4 780 IU/Kg
Vitamin D (Cholecalciferol)	1 200 IU/Kg
Vitamin E (a Tocopherol acetate)	91 mg/Kg
Vitamin K (Menadione)	1.2 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	7.2 mg/Kg
Vitamin B2 (Riboflavin)	7.2 mg/Kg
Niacin (Nicotinic acid)	36 mg/Kg
Vitamin B6 (Pryridoxine)	8.4 mg/Kg
Pantothenic Acid	19 mg/Kg
Biotin	240 ug/Kg
Folic Acid	2.4 mg/Kg
Inositol	None added
Vitamin B12 (Cyancobalamin)	120 ug/Kg
Choline	1 850 mg/Kg

Calculated Fatty Acid Composition as Fed	
Saturated Fats C12:0 and less	0.07%
Myristic Acid 14:0	0.32%
Palmitic Acid 16:0	5.93%
Stearic Acid 18:0	3.77%
Palmitoleic Acid 16:1	0.37%
Oleic Acid 18:1	7.85%
Gadoleic Acid 20:1	0.16%
Linoleic Acid 18:2 n6	4.58%
a Linolenic Acid 18:3 n3	0.50%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.53%
Total n6	4.60%
Total Saturated Fats	10.28%
Total Mono-Unsaturated Fats	8.45%
Total Polyunsaturated Fats	5.24%

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.

