



Diet
SF01-027

Low Zinc Modification of AIN93G Rodent Diet

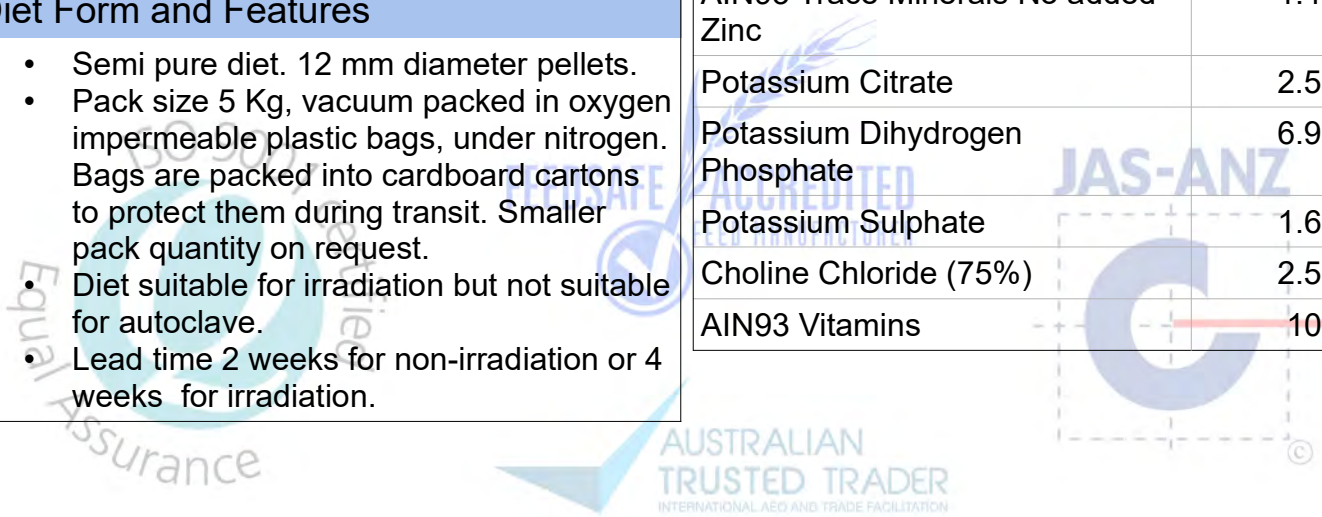
A semi-pure low zinc modification of AIN93G formulated for laboratory rats and mice.

- Zinc content has been reduced by excluding any additions in the trace mineral premix.
- A considerable quantity of zinc is present as trace level contaminants in the casein, starch and cellulose. The calculated zinc concentration of this diet is around 20 mg / Kg. Analyses confirm this concentration.
- At this concentration it would exceed the generally recognised maintenance and growth requirements for most strains of mice and rats. However zinc requirements during lactation and pregnancy are thought to be around 30 mg / Kg.
- It should be possible to further reduce dietary zinc concentration by careful selection of casein, starch and cellulose sources or finding alternative protein and carbohydrates.

Calculated Nutritional Parameters	
Protein	19.40%
Total Fat	7.00%
Crude Fibre	4.70%
AD Fibre	4.70%
Digestible Energy	16.3 MJ / Kg
% Total calculated digestible energy from lipids	16.0%
% Total calculated digestible energy from protein	21.0%

Diet Form and Features
<ul style="list-style-type: none"> • Semi pure 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)	200 g/Kg
Sucrose	100 g/Kg
Canola Oil	70 g/Kg
Cellulose	50 g/Kg
Wheat Starch	404 g/Kg
Dextrinised Starch	132 g/Kg
L Methionine	3.0 g/Kg
Calcium Carbonate	13.1 g/Kg
Sodium Chloride	2.6 g/Kg
AIN93 Trace Minerals No added Zinc	1.4 g/Kg
Potassium Citrate	2.5 g/Kg
Potassium Dihydrogen Phosphate	6.9 g/Kg
Potassium Sulphate	1.6 g/Kg
Choline Chloride (75%)	2.5 g/Kg
AIN93 Vitamins	10 g/Kg



Calculated Essential Amino Acids as Fed	
Valine	1.10%
Leucine	1.70%
Isoleucine	1.00%
Threonine	0.70%
Methionine	0.70%
Cysteine	0.05%
Lysine	1.50%
Phenylalanine	0.90%
Tyrosine	1.00%
Histidine	0.60%
Tryptophan	0.10%

Calculated Total Minerals as Fed	
Calcium	0.47%
Phosphorous	0.33%
Magnesium	0.09%
Sodium	0.14%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.23%
Iron	85 mg/Kg
Copper	6.6 mg/Kg
Iodine	0.22 mg/Kg
Manganese	23 mg/Kg
Cobalt	No data
Zinc	15 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	3.0 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)	75 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 as Fed	
Myristic Acid 14:0	No data
Palmitic Acid 16:0	0.40%
Stearic Acid 18:0	0.10%
Palmitoleic Acid 16:1	No data
Oleic Acid 18:1	4.20%
Gadoleic Acid 20:1	0.10%
Linoleic Acid 18:2 n6	1.30%
a Linolenic Acid 18:3 n3	0.70%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.78%
Total n6	1.33%
Total Mono Unsaturated Fats	4.30%
Total Polyunsaturated Fats	2.11%
Total Saturated Fats	0.49%

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.