



Specialty Feeds

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Diet Meat Free Rat and Mouse Maintenance Diet (SF00-105)

A fixed formulation diet for Laboratory Rats and Mice fortified with vitamins and minerals to meet the requirements of breeding animals after the diet is autoclaved or irradiated.

- All nutritional parameters of this diet meet or exceed the NRC maintenance guidelines for Rats and Mice.
- The diet has been designed as a maintenance ration for non breeding mature rodents.
- Protein content has been reduced from 19% in the standard ration to 15%.
- Crude Fibre content has been increased from 4.5% to 6.5%.
- Calculated energy has been reduced from 14.3 MJ/Kg to 13 MJ/Kg.
- Mineral content has been changed from the standard ration, reducing Ca and P but maintaining the Ca:P ratio.
- Mammalian meals have been excluded from the diet, however the diet does contain fish meal. We have formulated totally vegetarian diets, and maintained colonies for some time on these diets. Please contact us if you require such a diet.
- The feed is manufactured in a cylindrical form with a diameter of around 12 mm, length is variable from 10 mm to 30 mm. We have found that this form is ideal for overhead hopper feeding, maximising the ease of handling whilst minimising fines formation and the risk of bridging in the feed hopper. Pellet strength has been kept lower than conventional pelletised diets. While this leads to a slight increase in transit and storage damage to the diet (fines generation), we have found that juvenile mice often have a lower feed intake on harder pellets.
- The diet is packed in permeable bags suitable for direct loading into an autoclave. It is recommended that the diet be autoclaved at 120° C for 20 minutes with a post autoclaving vacuum drying cycle. Some clumping of the diet can be expected, but the diet clumps can usually be easily broken. Modifying the drying time to leave some residual moisture in the diet can minimise the clumping. Do not autoclave at 135° C as this will result in significant clumping that will be difficult to break.



Calculated Nutritional Parameters	
Protein	14.0%
Total Fat	4.3%
Crude Fibre	6.5%
Acid Detergent Fibre	10.0%
Neutral Detergent Fibre	22.3%
Total Carbohydrate	64.8%
Digestible Energy	12.8 MJ / Kg
% Total Calculated Energy from Protein	17.5%
% Total Calculated Energy From Lipids	12.1%

Diet Form and Features
<ul style="list-style-type: none"> • Cereal grain base diet. 12 mm diameter pellets. • Pack size 5 Kg, vacuum packed under nitrogen in oxygen impermeable plastic bags. Packs are double bagged and packed into cardboard cartons to protect them during transit and to ensure sterility is maintained. • Also available in 10 and 15Kg woven polyethylene bags, suitable for direct loading into an autoclave. • Diet suitable for irradiation, also suitable for autoclave. • Lead time 2 weeks or 4 weeks for irradiation.

Ingredients
<p>A Fixed formula ration using the following ingredients: Wheat, Bran, Oats, Soya meal, Fish meal, Mixed vegetable oils, Canola oil, Salt, Calcium Carbonate, Dicalcium phosphate, Magnesium oxide, and a Vitamin and trace mineral premix.</p>

Added Trace Minerals	
Magnesium	100 mg/Kg
Iron	70 mg/Kg
Copper	16 mg/Kg
Iodine	0.5 mg/Kg
Manganese	70 mg/Kg
Zinc	60 mg/Kg
Molybdenum	0.5 mg/Kg
Selenium	0.1 mg/Kg

Calculated Total Minerals	
Calcium	0.80%
Phosphorous	0.70%
Available Phosphorous	0.40%
Magnesium	0.20%
Sodium	0.20%
Potassium	0.80%
Sulphur	0.20%
Iron	219 mg/Kg
Copper	25 mg/Kg
Iodine	0.5 mg/Kg
Manganese	120 mg/Kg
Cobalt	0.7 mg/Kg
Zinc	95 mg/Kg
Molybdenum	1.2 mg/Kg
Selenium	0.4 mg/Kg
Cadmium	0.12 mg/Kg
Chromium	No data
Boron	2.4 mg/Kg

Calculated Amino Acids as Fed	
Valine	0.72%
Leucine	1.03%
Isoleucine	0.61%
Threonine	0.51%
Methionine	0.26%
Cysteine	0.28%
Lysine	0.87%
Phenylalanine	0.69%
Tyrosine	0.53%
Tryptophan	0.18%
Histidine	0.39%

Added Vitamins	
Vitamin A (Retinol)	10 000 IU/Kg
Vitamin D3 (Cholecalciferol)	2 000 IU/Kg
Vitamin E (a Tocopherol acetate)	100 mg/Kg
Vitamin K (Menadione)	20 mg/Kg
Vitamin B1 (Thiamine)	80 mg/Kg
Vitamin B2 (Riboflavin)	30 mg/Kg
Niacin (Nicotinic acid)	100 mg/Kg
Vitamin B6 (Pryridoxine)	25 mg/Kg
Calcium Pantothenate	50 mg/Kg
Biotin	300 ug/Kg
Folic Acid	5.0 mg/Kg
Vitamin B12 (Cyanocobalamin)	150 ug/Kg

Calculated Total Minerals	
Calcium	0.39%
Phosphorous	0.60%
Available Phosphorous	0.34%
Magnesium	0.20%
Sodium	0.20%
Potassium	0.54%
Sulphur	0.15%
Iron	160 mg/Kg
Copper	25 mg/Kg
Iodine	0.5 mg/Kg
Manganese	122 mg/Kg
Cobalt	0.5 mg/Kg
Zinc	99 mg/Kg
Molybdenum	0.5 mg/Kg
Selenium	0.3 mg/Kg
Cadmium	0.3 mg/Kg
Chromium	No data

Calculated Total Vitamins	
Vitamin A (Retinol)	10 170 IU/Kg
Vitamin D (Cholecalciferol)	2 000 IU/Kg
Vitamin E (a Tocopherol acetate)	114 mg/Kg
Vitamin K (Menadione)	20 mg/Kg
Vitamin C (Ascorbic acid)	No data
Vitamin B1 (Thiamine)	86 mg/Kg
Vitamin B2 (Riboflavin)	31 mg/Kg
Niacin (Nicotinic acid)	150 mg/Kg
Vitamin B6 (Pryridoxine)	28 mg/Kg
Pantothenic Acid	64 mg/Kg
Biotin	450 ug/Kg
Folic Acid	5.5 mg/Kg
Inositol	No data
Vitamin B12 (Cyanocobalamin)	150 ug/Kg
Choline	1 040 mg/Kg

Calculated Fatty Acid Composition	
Myristic Acid 14:0	0.02%
Palmitic Acid 16:0	0.63%
Stearic Acid 18:0	0.07%
Palmitoleic Acid 16:1	Trace
Oleic Acid 18:1	1.59%
Gadoleic Acid 20:1	0.04%
Linoleic Acid 18:2 n6	1.48%
a Linolenic Acid 18:3 n3	0.21%
Arachadonic Acid 20:4 n6	Trace
EPA 20:5 n3	0.02%
DHA 22:6 n3	0.04%
Total n3	0.28%
Total n6	1.50%
Total Mono Unsaturated Fats	1.63%
Total Polyunsaturated Fats	1.76%
Total Saturated Fats	0.72%

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.