



Specialty Feeds

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DIET

IRRADIATED RAT AND MOUSE

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

- Y This diet has identical specifications to our autoclavable standard Rat and Mouse ration.
- Y The diet is vacuum packed in three layers of packaging, the first layer being a paper liner followed by two separate layers of low oxygen permeability plastic. The bags are packed in an outer cardboard box then irradiated at 25KGy. The irradiation operation has an extensive quality control process to ensure each carton has received the required dose.
- Y Spot samples of cartons are routinely checked to ascertain sterility.
- Y All nutritional parameters of this diet meet or exceed the NRC guidelines for Rats and Mice.
- Y The diet has been designed as a general ration for breeding and early growth in all rat and mouse strains. The total fat content has been deliberately kept low at around 5%, to maximize the long term breeding performance of most strains.
- Y The formulation is designed to be fed ad-lib to rodents of all ages. There is some indication that growth performance in a minority of strains can be improved by increasing dietary energy (fat content). BalbC mice, DA rats and some of the modified strains appear to be most susceptible to this problem. Please contact us if you are concerned about this issue.
- Y 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.
- Y 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, maximizing the ease of handling whilst minimizing 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.

Calculated Nutritional parameters

Protein	19.6 %
Total Fat	4.6 %
Crude Fibre	4.5 %
Digestible Energy	14.3 MJ / Kg

Ingredients

A fixed formula ration using the following ingredients.

Wheat, Lupins, Barley, Soya meal, Fish meal, Mixed vegetable oils, Canola oil, salt, Calcium carbonate, Dicalcium phosphate, Magnesium oxide and a Vitamin and trace mineral premix.

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

FEEDING RECOMMENDATIONS

Feed ad-lib to animals of all ages

DIET FORM

12mm diameter cubes. Vacuum Packed under nitrogen in 5 Kg, 7.5 Kg and 10 Kg bags. Product is double bagged inside a cardboard box to ensure sterility is maintained.

Added Vitamins

Vitamin A (Retinol)	10,000 IU / Kg
Vitamin D3 (Cholecalciferol)	2,000 IU/Kg
Vitamin K (Menadione)	20 mg / Kg
Vitamin E (α Tocopherol acetate)	100 mg / Kg
Vitamin B1 (Thiamine)	80 mg / Kg
Vitamin B2 (Riboflavin)	30 mg / Kg
Niacin (Nicotinic acid)	100 mg / Kg
Vitamin B6 (Pyridoxine)	25 mg / Kg
Calcium Pantothenate	50 mg / Kg
Biotin	300 ug / Kg
Folic acid	5 mg / Kg
Vitamin B12 (Cyanocobalamin)	150 ug / Kg

Calculated Amino Acids	
Valine	0.87 %
Leucine	1.4 %
Isoleucine	0.8 %
Threonine	0.7 %
Methionine	0.3 %
Cystine	0.3 %
Lysine	0.9 %
Phenylalanine	0.9 %
Tyrosine	0.5 %
Tryptophan	0.2 %

Calculated Total Minerals	
Calcium	0.78 %
Phosphorous	0.7 %
Magnesium	0.2 %
Sodium	0.2 %
Potassium	0.7 %
Sulphur	0.2 %
Iron	590 mg / Kg
Copper	24 mg / Kg
Iodine	0.5 mg / Kg
Manganese	115 mg / Kg
Cobalt	460 mg / Kg
Zinc	90 mg / Kg
Molybdenum	1.2 mg / Kg
Selenium	0.4 mg / Kg
Cadmium	0.04 mg / Kg
Chromium	no data

Calculated total Vitamins	
Vitamin A (Retinol)	10,950 IU / Kg
Vitamin D3 (Cholecalciferol)	> 2,000 IU / Kg
Vitamin E (Tocopherol)	110 mg / Kg
Vitamin K (Menadione)	20 mg / Kg
Vitamin C (Ascorbic acid)	no data
Vitamin B1 (Thiamine)	80 mg / Kg
Vitamin B2 (Riboflavin)	30 mg / Kg
Niacin (Nicotinic acid)	145 mg / Kg
Vitamin B6 (Pyridoxine)	28 mg / Kg
Pantothenic acid	60 mg / Kg
Biotin	410 ug / Kg
Folic acid	5 mg / Kg
Inositol	no data
Vitamin B12 (Cyanocobalamin)	150 ug / Kg
Choline	1600 mg / Kg

Calculated Fat Composition	
Myristic Acid 14:0	0.03 %
Palmitic Acid 16:0	0.5 %
Stearic Acid 18:0	0.14 %
Palmitoleic Acid 16:1	0.01 %
Oleic Acid 18:1	1.9 %
Gadoleic Acid 20:1	0.03 %
Linoleic Acid 18:2 n6	1.3 %
a Linolenic Acid 18:3 n3	0.3 %
Arachadonic Acid 20:4 n6	0.01 %
EPA 20:5 n3	0.02 %
DHA 22:6 n3	0.05 %
Total Carotenoid	no data
Total Phospholipid	no data
Cholesterol	trace

Calculated data uses information from typical raw material composition. It could be expected that individual batches of diet will vary from this figure.

We are happy to provide full calculated nutritional information for all of our products, however we would like to emphasize that these diets have been specifically designed for manufacture by Specialty Feeds