Specialty Feeds
0.23150 Great Eastern Hwy
Glen Forrest
Western Australia 6071
p: +61 8 9298 8111
F: +61 8 9298 8700
Email: info@specialtyfeeds.com

Diet 7.5% Fat Meat Free Rat and Mouse Diet (SF00-111)

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.

1. Diet is a modification of SF00-100, increasing designed fat content to 7.5%, Calcium to 1.5% and Phosphorus to 1%. This diet is designed to be nutritionally similar to LabDiet 525K.

- Both calcium and phosphorus content has been increased.
- Protein content has been increased.
- The intention is to manufacture a diet with approximately 6.2% fat as measured by soxhlet ether extraction or 7.5% after acid hydrolysis.
- All nutritional parameters of this diet meet or exceed the NRC guidelines for Rats and Mice.
- The diet has been designed as a general ration for breeding and early growth in all rat and mouse strains.
- The formulation is designed to be fed ad-lib to rodents for growing, breeding or lactating mice.
- 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 vacuum packed in 5 Kg gas impermeable plastic, 2 layers, and loaded into a cardboard box.

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Calculated Nutritional Parameters as Fed

Protein	21.0%
Total Fat	7.5%
Crude Fibre	5.3%
Acid Detergent Fibre	8.5%
Neutral Detergent Fibre	15.0%
Total Carbohydrate	53.0%
Digestible Energy	14.4 MJ / Kg
% Total Calculated Digestible Energy From Protein	24.0%
% Total Calculated Digestible Energy From Lipids	19.0%

Ingredients

A Fixed formula ration using the following ingredients:
Wheat, barley, Lupins, Soya meal, Fish meal, Mixed vegetable oils, Canola oil, Salt, Calcium carbonate, Dicalcium phosphate, Magnesium oxide, and a Vitamin and trace mineral premix.

Added Vitamins as Fed

Vitamin A (Retinol)	10 000 IU/Kg
Vitamin D (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 (Cyancobalamin)	150 ug/Kg

Diet Form and Features

- Cereal grain base diet. 12 mm diameter pellets.
- Pack size 10 and 20 Kg Bags.
- Diet suitable for irradiation, also suitable for autoclave.
- Lead time 2 weeks

Added Trace Minerals as Fed

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 Amino Acids as Fed

Valine	0.97%
Leucine	1.50%
Isoleucine	0.89%
Threonine	0.76%
Methionine	0.25%
Cysteine	0.34%
Lysine	1.00%
Phenylalanine	0.94%
Tyrosine	0.76%
Tryptophan	0.23%
Arginine	1.50%
Histidine	0.54%
Taurine	80 mg/Kg

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Calculated Total Minerals as Fed	
Calcium	1.50%
Phosphorous	1.00%
Magnesium	0.23%
Sodium	0.20%
Chloride	0.33%
Potassium	0.71%
Sulphur	0.18%
Iron	340 mg/Kg
Copper	25 mg/Kg
Iodine	0.5 mg/Kg
Manganese	110 mg/Kg
Cobalt	0.5 mg/Kg
Zinc	94 mg/Kg
Molybdenum	1.6 mg/Kg
Selenium	0.3 mg/Kg
Cadmium	0.04 mg/Kg

Calculated Fatty Acid Composition as Fed	
Myristic Acid 14:0	0.04%
Palmitic Acid 16:0	0.77%
Stearic Acid 18:0	0.27%
Palmitoleic Acid 16:1	0.03%
Oleic Acid 18:1	3.60%
Gadoleic Acid 20:1	0.06%
Linoleic Acid 18:2 n6	2.00%
a Linolenic Acid 18:3 n3	0.50%
Arachadonic Acid 20:4 n6	Trace
EPA 20:5 n3	0.02%
DHA 22:6 n3	0.03%
Total n3	0.58%
Total n6	2.00%
Total Mono Unsaturated Fats	3.70%
Total Polyunsaturated Fats	2.60%
Total Saturated Fats	1.20%

Calculated Total Vitamins as Fed	
Vitamin A (Retinol)	11 000 IU/Kg
Vitamin D (Cholecalciferol)	2 000 IU/Kg
Vitamin E (a Tocopherol acetate)	110 mg/Kg
Vitamin K (Menadione)	20 mg/Kg
Vitamin C (Ascorbic acid)	No data
Vitamin B1 (Thiamine)	84 mg/Kg
Vitamin B2 (Riboflavin)	31 mg/Kg
Niacin (Nicotinic acid)	140 mg/Kg
Vitamin B6 (Pryridoxine)	28 mg/Kg
Pantothenic Acid	58 mg/Kg
Biotin	410 ug/Kg
Folic Acid	5 mg/Kg
Inositol	No data
Vitamin B12 (Cyancobalamin)	150 ug/Kg
Choline	2 300 mg/Kg

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.