Specialty Feeds

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Diet
SF13-103

Low Choline 15% Fat Purified Rodent Diet

A semi-pure low choline diet formulation for laboratory rats and mice based.

- Diet is low in Choline
- Pure Amino Acid Diet
- Designed to be similar to 'Dyets' D518753. Some modifications have been made to the original formulation to suit locally available raw materials.
- Note this diet is deficient in Omega 3 Fatty Acids.

Calculated Nutritional Parameters

Protein	14.0%
Total Fat	14.5%
Crude Fibre	4.7%
AD Fibre	4.7%
Digestible Energy	18.4 MJ / Kg
% Total calculated digestible energy from protein	15.9%
% Total calculated digestible energy from lipids	30.3%

Diet Form and Features

- Semi pure diet. 12 mm Pellets or available in dough form.
- 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

Sucrose	411 g/Kg
Dextrose	100 g/Kg
Maize Oil	50 g/Kg
Copha (Hydrogenated vegetable Oil)	100 g/Kg
Cellulose	50 g/Kg
Maize Starch	100 g/Kg
Sodium Bicarbonate	4.3 g/Kg
Dicalcium Phosphate	17.5 g/Kg
Salt	2.6 g/Kg
AIN 93 Trace Minerals No Iron	1.4 g/Kg
LR Potassium Sulphate	1.6 g/Kg
LR Potassium Citrate	7.7 g/Kg
AIN93 Vitamins	10 g/Kg
LR Ferric Citrate	0.3 g/Kg
L Methionine	1.7 g/Kg
Lysine	9.1 g/Kg
L Tryptophan	1.8 g/Kg
L Alanine	5.1 g/Kg
L Arginine	12.7 g/Kg
L Aspartic Acid	15.8 g/Kg
L Cyctine	3.7 g/Kg
L Glutamic Acid	28.9 g/Kg

Ingredients	
Glycine	6.2 g/Kg
L Histidine	3.4 g/Kg
L Isoleucine	6.1 g/Kg
L Leucine	10.5 g/Kg
L Phenylalanine	7.3 g/Kg
L Proline	7.6 g/Kg
L Serine	7.2 g/Kg
L Threonine	4.6 g/Kg
L Tyrosine	5.7 g/Kg
L Valine	6.3 g/Kg

Calculated Essential Amino Acids as Fed	
Valine	0.62%
Leucine	1.04%
Isoleucine	0.60%
Threonine	0.46%
Methionine	0.17%
Cysteine	0.36%
Lysine	0.71%
Phenylalanine	0.72%
Tyrosine	0.57%
Tryptophan	0.18%
Arginine	1.26%
Glycine	0.61%
Histidine	0.34%
Serine	0.71%

Calculated Total Minerals as Fed	
Calcium	0.43%
Phosphorous	0.34%
Magnesium	0.07%
Sodium	0.23%
Chloride	0.16%
Potassium	0.40%
Sulphur	0.18%
Iron	70 mg/Kg
Copper	8.4 mg/Kg
Iodine	0.2 mg/Kg
Manganese	21 mg/Kg
Cobalt	No data
Zinc	41 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	0.5 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)	77 mg/Kg
Vitamin K (Menadione)	1 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	6 mg/Kg
Vitamin B2 (Riboflavin)	6 mg/Kg
Niacin (Nicotinic acid)	30 mg/Kg
Vitamin B6 (Pryridoxine)	7 mg/Kg
Pantothenic Acid	16 mg/Kg
Biotin	200 ug/Kg
Folic Acid	2 mg/Kg
Inositol	None added
Vitamin B12 (Cyancobalamin)	100 ug/Kg
Choline	40 mg/Kg

Calculated Fatty Acid Composition as Fed	
Saturated Fat C12:0 and less	5.14%
Myristic Acid 14:0	1.36%
Palmitic Acid 16:0	1.80%
Stearic Acid 18:0	0.98%
Palmitoleic Acid 16:1	0.05%
Oleic Acid 18:1	2.20%
Gadoleic Acid 20:1	0.01%
Linoleic Acid 18:2 n6	3.10%
a Linolenic Acid 18:3 n3	0.05%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.05%
Total n6	3.10%
Total Saturated Fats	9.33%
Total Mono-Unsaturated Fats	2.28%
Total Polyunsaturated Fats	3.15%

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.