Rat Diet 5012*

DESCRIPTION

Rat Diet is a formulated to supply complete life-cycle nutrition specifically designed to support reproduction, lactation, growth and maintenance of rats. This diet is formulated using the unique and innovative concept of Constant Nutrition®, paired with the selection of highest quality ingredients to assure minimal inherent biological variation in long-term studies. It is low in cholesterol content, with an increased level of unsaturated fatty acids over other rodent diets.

Features and Benefits

- Constant Nutrition® formula helps minimize nutritional variables
- Highly digestible formula specifically for rats
- Low cholesterol
- High quality fish meal and plant proteins added to create a superior balance of amino acids for optimum performance

Product Forms Available

- Oval pellet, 10 mm x 16 mm x 25 mm length (3/8"x5/8"x1")
- Meal (ground pellets)

GUARANTEED ANALYSIS

Crude protein not less than	22.0%
Crude fat not less than	4.0%
Crude fiber not more than	5.0%
Moisture not more than	13.0%
Ash not more than	8.0%

INGREDIENTS

Ground corn, dehulled soybean meal, fish meal, wheat middlings, cane molasses, dehydrated alfalfa meal, soybean oil, brewers dried yeast, wheat germ, dried beet pulp, ground oats, dicalcium phosphate, monocalcium phosphate, calcium carbonate, salt, DL-methionine, choline chloride, vitamin A acetate, cholecalciferol, menadione dimethylpyrimidinol bisulfite (vitamin K), pyridoxine hydrochloride, biotin, thiamin mononitrate, vitamin B_{12} supplement, dl-alpha tocopheryl acetate, nicotinic acid, calcium pantothenate, riboflavin, manganous oxide, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate, sodium selenite.

FEEDING DIRECTIONS

Provide feeders large enough to hold two to three days supply of Rat Diet at any time. Arrange feeders so that animals cannot contaminate feed with feces. Keep plenty of clean, fresh water available to the animals at all times.

Rats- All rats will eat varying amounts of feed depending on their genetic origin. Larger strains will eat up to 30 grams per day. Smaller strains will eat up to 15 grams per day. Feeders in rat cages should be designed to hold two to three days supply of feed at one time.

CHEMICAL COMPOSITION[1]

Nutrients[2]

Protein, %	**23.2**
Arginine, %	1.39
Cystine, %	0.31
Glycine, %	1.11
Histidine, %	0.57
Isoleucine, %	1.12
Leucine, %	1.85
Lysine, %	1.35
Methionine, %	0.67
Phenylalanine, %	1.04
Tyrosine, %	0.68
Threonine, %	0.87
Tryptophan, %	0.29
Valine, %	1.15
Serine, %	1.19
Aspartic Acid, %	2.70
Glutamic Acid, %	4.54
Alanine, %	1.38
Proline, %	1.54
Taurine, %	0.02
Fat (ether extract), %	**5.0**
Fat (acid hydrolysis), %	**5.8**
Cholesterol, ppm	170
Linoleic Acid, %	2.25
Linolenic Acid, %	0.25
Arachidonic Acid, %	<0.01
Omega-3 Fatty Acids, %	0.32
Total Saturated Fatty Acids, %	0.96
Total Monounsaturated Fatty Acids, %	1.04
Fiber (Crude), %	**3.8**
Neutral Detergent Fiber[3], %	13.1
Acid Detergent Fiber[4], %	4.9
Nitrogen-Free Extract (by difference), %	**51.2**
Starch, %	39.5
Glucose, %	0.29
Fructose, %	0.34
Sucrose, %	3.38
Lactose, %	0.00
Total Digestible Nutrients,%	**76.6**
Gross Energy, kcal/gm	**4.14**
Physiological Fuel Value[5], kcal/gm	**3.43**
Metabolizable Energy, kcal/gm	**3.10**

Minerals

Ash, %	**6.6**
Calcium, %	0.95
Phosphorus, %	0.74
Phosphorus (non-phytate), %	0.46
Potassium, %	1.09
Magnesium, %	0.20
Sulfur, %	0.33
Sodium, %	0.28
Chlorine, %	0.52
Fluorine, ppm	25
Iron, ppm	310
Zinc, ppm	82
Manganese, ppm	75
Copper, ppm	12
Cobalt, ppm	0.65
Iodine, ppm	1.1
Chromium, ppm	1.4
Selenium, ppm	0.30

Vitamins

Carotene, ppm	1.9
Vitamin K (as menadione),ppm	1.2
Thiamin Hydrochloride, ppm	12
Riboflavin, ppm	4.6
Niacin, ppm	81
Pantothenic Acid, ppm	12
Choline Chloride, ppm	1900
Folic Acid, ppm	1.0
Pyridoxine, ppm	6.5
Biotin, ppm	0.3
B_{12}, mcg/kg	50
Vitamin A, IU/gm	12
Vitamin D_3 (added), IU/gm	3.3
Vitamin E, IU/kg	35
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	27.068
Fat (ether extract), %	13.244
Carbohydrates, %	59.688

*Product Code

1. Formulation based on calculated values from the latest ingredient analysis information. Since nutrient composition of natural ingredients varies and some nutrient loss will occur due to manufacturing processes, analysis will differ accordingly.
2. Nutrients expressed as percent of ration except where otherwise indicated. Moisture content is assumed to be 10.0% for the purpose of calculations.
3. NDF = approximately cellulose, hemi-cellulose and lignin.
4. ADF = approximately cellulose and lignin.
5. Physiological Fuel Value (kcal/gm) = Sum of decimal fractions of protein, fat and carbohydrate (use Nitrogen Free Extract) x 4,9,4 kcal/gm respectively.