Laboratory Rodent Diet 5001*

DESCRIPTION

Laboratory Rodent Diet is recommended for rats, mice, hamsters and gerbils. 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 formulated for life-cycle nutrition; however, it is not designed for maximizing production in mouse breeding colonies. This product has been the standard of biomedical research for over 65 years.

Features and Benefits

- Constant Nutrition® formula helps minimize nutritional variables
- High quality animal protein added to create a superior balance of amino acids for optimum performance
- Formulated for multiple species for single product inventory
- The rodent diet standard for biomedical research

Product Forms Available

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

Other Versions Available

- 5010 Laboratory Auoclavable Rodent Diet
- 5L0D PicoLab Laboratory Rodent Diet (Minimum order required)

GUARANTEED ANALYSIS

Crude protein not less than	23.0%
Crude fat not less than	4.5%
Crude fiber not more than	6.0%
Ash not more than	8.0%

INGREDIENTS

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

FEEDING DIRECTIONS

Feed ad libitum to rodents. Plenty of fresh, clean water should be 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.

Mice-Adult mice will eat up to 5 grams of pelleted ration daily. Some of the larger strains may eat as much as 8 grams per day per animal. Feed should be available on a free choice basis in wire feeders above the floor of the cage.

Hamsters-Adults will eat up to 14 grams per day.

CHEMICAL COMPOSITION[1]

Nutrients[2]

Protein, %	**23.9**
Arginine, %	1.41
Cystine, %	0.31
Glycine, %	1.21
Histidine, %	0.57
Isoleucine, %	1.14
Leucine, %	1.83
Lysine, %	1.41
Methionine, %	0.67
Phenylalanine, %	1.04
Tyrosine, %	0.71
Threonine, %	0.91
Tryptophan, %	0.29
Valine, %	1.17
Serine, %	1.19
Aspartic Acid, %	2.81
Glutamic Acid, %	4.37
Alanine, %	1.43
Proline, %	1.49
Taurine, %	0.02
Fat (ether extract), %	**5.0**
Fat (acid hydrolysis), %	**5.7**
Cholesterol, ppm	200
Linoleic Acid, %	1.22
Linolenic Acid, %	0.10
Arachidonic Acid, %	<0.01
Omega-3 Fatty Acids, %	0.19
Total Saturated Fatty Acids, %	1.56
Total Monounsaturated Fatty Acids, %	1.60
Fiber (Crude), %	**5.1**
Neutral Detergent Fiber[3], %	15.6
Acid Detergent Fiber[4], %	6.7
Nitrogen-Free Extract (by difference), %	**48.7**
Starch, %	31.9
Glucose, %	0.22
Fructose, %	0.30
Sucrose, %	3.70
Lactose, %	2.01
Total Digestible Nutrients,%	**76.0**
Gross Energy, kcal/gm	**4.07**
Physiological Fuel Value[5], kcal/gm	**3.36**
Metabolizable Energy, kcal/gm	**3.02**

Minerals

Ash, %	**7.0**
Calcium, %	0.95
Phosphorus, %	0.66
Phosphorus (non-phytate), %	0.39
Potassium, %	1.18
Magnesium, %	0.21
Sulfur, %	0.36
Sodium, %	0.40
Chlorine, %	0.67
Fluorine, ppm	16
Iron, ppm	270
Zinc, ppm	79
Manganese, ppm	70
Copper, ppm	13
Cobalt, ppm	0.90
Iodine, ppm	1.0
Chromium, ppm	1.2
Selenium, ppm	0.30

Vitamins

Carotene, ppm	2.3
Vitamin K (as menadione),ppm	1.3
Thiamin Hydrochloride, ppm	16
Riboflavin, ppm	4.5
Niacin, ppm	120
Pantothenic Acid, ppm	24
Choline Chloride, ppm	2250
Folic Acid, ppm	7.1
Pyridoxine, ppm	6.0
Biotin, ppm	0.30
B_{12}, mcg/kg	50
Vitamin A, IU/gm	15
Vitamin D_3 (added), IU/gm	4.5
Vitamin E, IU/kg	42
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	28.507
Fat (ether extract), %	13.496
Carbohydrates, %	57.996

*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.