Advanced Protocol®

Certified Rodent Diet, 18% 5LG3*

DESCRIPTION

Advanced Protocol® Certified Rodent Diet, 18% is recommended for the maintenance, growth and reproduction of rats, mice and hamsters. This diet is a complete life cycle diet formulated using managed formulation, delivering Constant Nutrition®. This is paired with the selection of highest quality ingredients to assure minimal inherent biological variation in long-term studies. A sample of this product will have been assayed prior to shipment. For protocols that call for 5002 with lower protein.

Features and Benefits

- Managed Formulation delivers Constant Nutrition®
- Each package is assayed for environmental contaminants prior to shipment
- Preanalysis monitoring assures maximum diet control
- Certification profile fulfills GLP requirements

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	18.0%
Crude fat not less than	3.5%
Crude fiber not more than	6.0%

INGREDIENTS

Ground corn, ground wheat, wheat middlings, corn gluten meal, dehulled soybean meal, dried beet pulp, soybean oil, dehydrated alfalfa meal, calcium carbonate, brewers dried yeast, soy protein concentrate, salt, dicalcium phosphate, L-lysine, DL-methionine, choline chloride, potassium chloride, menadione dimethylpyrimidinol bisulfite (vitamin K), chromium potassium sulfate, pyridoxine hydrochloride, cholecalciferol, vitamin A acetate, dl-alpha tocopheryl acetate, biotin, folic acid, nicotinic acid, vitamin B_{12} supplement, calcium pantothenate, riboflavin, thiamine mononitrate, zinc oxide, L-tryptophan, manganous 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.

For information regarding shelf life please visit www.labdiet.com.

CHEMICAL COMPOSITION[1]

Nutrients[2]

Protein, %	**18.0**
Arginine, %	1.05
Cystine, %	0.26
Glycine, %	0.79
Histidine, %	0.43
Isoleucine, %	0.89
Leucine, %	1.41
Lysine, %	1.06
Methionine, %	0.35
Phenylalanine, %	0.82
Tyrosine, %	0.49
Threonine, %	0.65
Tryptophan, %	0.24
Valine, %	0.88
Serine, %	1.02
Aspartic Acid, %	2.07
Glutamic Acid, %	4.44
Alanine, %	1.02
Proline, %	1.45
Taurine, %	0.00
Fat (ether extract), %	**3.5**
Fat (acid hydrolysis), %	**4.4**
Cholesterol, ppm	0
Linoleic Acid, %	1.89
Linolenic Acid, %	0.20
Arachidonic Acid, %	0
Omega-3 Fatty Acids, %	0.20
Total Saturated Fatty Acids, %	0.67
Total Monounsaturated Fatty Acids, %	0.73
Fiber (Crude), %	**4.0**
Neutral Detergent Fiber[3], %	15.3
Acid Detergent Fiber[4], %	5.7
Nitrogen-Free Extract (by difference), %	**59.7**
Starch, %	46.5
Glucose, %	0.2
Fructose, %	0.3
Sucrose, %	1.3
Lactose, %	0
Total Digestible Nutrients,%	**77.4**
Gross Energy, kcal/gm	**3.99**
Physiological Fuel Value[5], kcal/gm	**3.42**
Metabolizable Energy, kcal/gm	**3.20**

Minerals

Ash, %	**4.8**
Calcium, %	0.75
Phosphorus, %	0.56
Phosphorus (non-phytate), %	0.30
Potassium, %	0.82
Magnesium, %	0.18
Sulfur, %	0.21
Sodium, %	0.26
Chloride, %	0.50
Fluorine, ppm	12
Iron, ppm	200
Zinc, ppm	78
Manganese, ppm	73
Copper, ppm	11
Cobalt, ppm	0.52
Iodine, ppm	0.83
Chromium, ppm	1.0
Selenium, ppm	0.29

Vitamins

Carotene, ppm	1.3
Vitamin K (as menadione),ppm	3.3
Thiamin Hydrochloride, ppm	9.5
Riboflavin, ppm	8.0
Niacin, ppm	130
Pantothenic Acid, ppm	17
Choline Chloride, ppm	1800
Folic Acid, ppm	2.9
Pyridoxine, ppm	8.0
Biotin, ppm	0.25
B_{12}, mcg/kg	25
Vitamin A, IU/gm	10
Vitamin D_3 (added), IU/gm	2.2
Vitamin E, IU/kg	110
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	21.034
Fat (ether extract), %	9.203
Carbohydrates, %	69.763

*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.