

DESCRIPTION

Laboratory Rodent Diet is a Constant Nutrition™ formulation recommended for rats, mice and hamsters. The constant formula feature is designed to minimize nutritional variables in long-term studies. It is formulated for life-cycle nutrition; however, it is not designed for maximizing production in breeding colonies. This product has been the standard of biomedical research for approximately fifty years. Refer to the Shelf Life section at the end of this book for product longevity information and storage suggestions.

Features and Benefits

- Constant Nutrition™ formula helps minimize nutritional variables
- 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)

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%
Added minerals not more than	2.5%

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 meat meal, wheat middlings, animal fat preserved with BHA, salt, calcium carbonate, choline chloride, cholecalciferol, vitamin A acetate, folic acid, pyridoxine hydrochloride, DL-methionine, thiamin mononitrate, calcium pantothenate, nicotinic acid, dl-alpha tocopheryl acetate, cyanocobalamin, riboflavin, ferrous sulfate, manganous oxide, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate.

FEEDING DIRECTIONS

Feed ad libitum to rodents. Plenty of fresh, clean water should be available to the animals at all times. Refer to the "Animal Care and Biological Values" section of this manual for detailed feeding directions.

Rats- All rats will eat varying amounts of feed depending on their genetic origin. Larger strains will eat between 15-30 grams per day. Smaller strains will eat between 12-15 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 4 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 10 to 14 grams per day.

CHEMICAL COMPOSITION¹

Nutrients²	
Protein, %	23.4
Arginine, %	1.38
Cystine, %	0.32
Glycine, %	1.20
Histidine, %	0.55
Isoleucine, %	1.18
Leucine, %	1.70
Lysine, %	1.42
Methionine, %	0.43
Phenylalanine, %	1.03
Tyrosine, %	0.68
Threonine, %	0.91
Tryptophan, %	0.29
Valine, %	1.21
Serine, %	1.21
Aspartic Acid, %	2.83
Glutamic Acid, %	4.54
Alanine, %	1.44
Proline, %	1.55
Taurine, %	0.02
Fat (ether extract), %	4.5
Fat (acid hydrolysis), %	5.5
Cholesterol, ppm	200
Linoleic Acid, %	1.16
Linolenic Acid, %	0.07
Arachidonic Acid, %	<0.01
Omega-3 Fatty Acids, %	0.26
Total Saturated Fatty Acids, %	1.50
Total Monounsaturated Fatty Acids, %	1.58
Fiber (Crude), %	5.3
Neutral Detergent Fiber ³ , %	14.3
Acid Detergent Fiber ⁴ , %	6.8
Nitrogen-Free Extract (by difference), %	49.9
Starch, %	31.9
Glucose, %	0.23
Fructose, %	0.30
Sucrose, %	3.68
Lactose, %	1.67
Total Digestible Nutrients, %	76.0
Gross Energy, kcal/gm	4.00
Physiological Fuel Value⁵, kcal/gm	3.34
Metabolizable Energy, kcal/gm	3.04
Minerals	
Ash, %	6.9
Calcium, %	0.95
Phosphorus, %	0.67
Phosphorus (non-phytate), %	0.40
Potassium, %	1.10
Magnesium, %	0.21
Sulfur, %	0.28
Sodium, %	0.40
Chlorine, %	0.65
Fluorine, ppm	18
Iron, ppm	270
Zinc, ppm	70
Manganese, ppm	64
Copper, ppm	13
Cobalt, ppm	0.6
Iodine, ppm	0.8
Chromium, ppm	2.0
Selenium, ppm	0.27
Vitamins	
Carotene, ppm	4.5
Vitamin K (as menadione), ppm	0.5
Thiamin Hydrochloride, ppm	17
Riboflavin, ppm	8.0
Niacin, ppm	124
Pantothenic Acid, ppm	24
Choline Chloride, ppm	2250
Folic Acid, ppm	5.9
Pyridoxine, ppm	6.0
Biotin, ppm	0.2
B ₁₂ , mcg/kg	22
Vitamin A, IU/gm	22
Vitamin D ₃ (added), IU/gm	4.5
Vitamin E, IU/kg	49
Ascorbic Acid, mg/gm	—
Calories provided by:	
Protein, %	28.049
Fat (ether extract), %	12.137
Carbohydrates, %	59.814

*Product Code

1. Based on the latest ingredient analysis information. Since nutrient composition of natural ingredients varies, 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.