

Laboratory Autoclavable Rodent Diet 5010*

DESCRIPTION

Laboratory Autoclavable Rodent Diet 5010 is the companion product of Laboratory Rodent Diet 5001. It has been formulated with extra nutrients to compensate for the nutrient losses that occur during steam sterilization. The product is coated with a small amount of silicon dioxide to reduce clumping during the autoclaving process. 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
- Processed with silicon dioxide to reduce sticking and clumping
- Similar to Laboratory Rodent Diet 5001 in nutrient composition and animal performance

Product Forms Available

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

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	3.0%

AUTOCLAVING SUGGESTIONS

To autoclave the pellets, place on trays, in small bags, or in larger bags, to a depth of no more than 3 inches. When steam autoclaved, the pellets swell and exert force on adjacent pellets. Confinement by a bag or container creates additional pressure, which may result in sticking. **Assay before and after autoclaving:** Conditions of sterilization must be determined for each autoclaving unit. Microbiological evaluation should be done to insure sterilization is achieved. It is best to assay the diet before and after sterilization to determine nutrient losses.

INGREDIENTS

Ground yellow corn, soybean meal, wheat middlings, fish meal, ground wheat, wheat germ meal, brewers dried yeast, ground oats, alfalfa meal, calcium carbonate, animal fat preserved with BHA, dried beet pulp, soybean oil, salt, ground soybean hulls, dicalcium phosphate, cyanocobalamin, biotin, DL-methionine, calcium pantothenate, choline chloride, folic acid, riboflavin, cholecalciferol, vitamin A acetate, dl-alpha tocopheryl acetate, thiamin mononitrate, nicotinic acid, pyridoxine hydrochloride, menadione dimethylpyrimidinol bisulfite (source of vitamin K), silicon dioxide, calcium iodate, manganese oxide, copper sulfate, cobalt carbonate, ferrous carbonate, zinc sulfate, zinc oxide.

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.

08/28/06

CHEMICAL COMPOSITION¹

Nutrients²

Protein, %	23.5
Arginine, %	1.40
Cystine, %	0.34
Glycine, %	1.20
Histidine, %	0.58
Isoleucine, %	1.24
Leucine, %	1.87
Lysine, %	1.42
Methionine, %	0.49
Phenylalanine, %	1.08
Tyrosine, %	0.64
Threonine, %	0.94
Tryptophan, %	0.29
Valine, %	1.22
Serine, %	1.23
Aspartic Acid, %	2.68
Glutamic Acid, %	5.02
Alanine, %	1.49
Proline, %	1.73
Taurine, %	0.03

Fat (ether extract), % 5.1

Fat (acid hydrolysis), % 6.2

Cholesterol, ppm	275
Linoleic Acid, %	1.82
Linolenic Acid, %	0.12
Arachidonic Acid, %	<0.01
Omega-3 Fatty Acids, %	0.42
Total Saturated Fatty Acids, %	1.40
Total Monounsaturated	
Fatty Acids, %	1.52

Fiber (Crude), % 3.9

Neutral Detergent Fiber³, % 12.7

Acid Detergent Fiber⁴, % 4.5

Nitrogen-Free Extract

(by difference), % 50.3

Starch, % 36.2

Glucose, % 0.26

Fructose, % 0.30

Sucrose, % 1.02

Lactose, % 0

Total Digestible Nutrients, % 76.0

Gross Energy, kcal/gm 4.06

Physiological Fuel Value⁵,

kcal/gm 3.41

Metabolizable Energy,

kcal/gm 3.17

Minerals

Ash, % 7.2

Calcium, % 1.00

Phosphorus, % 0.67

Phosphorus (non-phytate), % 0.43

Potassium, % 0.92

Magnesium, % 0.22

Sulfur, % 0.24

Sodium, % 0.28

Chlorine, % 0.39

Fluorine, ppm 35

Iron, ppm 240

Zinc, ppm 124

Manganese, ppm 115

Copper, ppm 18

Cobalt, ppm 0.44

Iodine, ppm 1.2

Chromium, ppm 2.0

Selenium, ppm 0.31

Vitamins

Carotene, ppm 4.5

Vitamin K (as menadione), ppm 3.4

Thiamin Hydrochloride, ppm 90

Riboflavin, ppm 8.0

Niacin, ppm 128

Pantothenic Acid, ppm 25

Choline Chloride, ppm 2200

Folic Acid, ppm 6.0

Pyridoxine, ppm 17

Biotin, ppm 0.35

B₁₂, mcg/kg 33

Vitamin A, IU/gm 44

Vitamin D₃ (added), IU/gm 4.4

Vitamin E, IU/kg 66

Ascorbic Acid, mg/gm —

Calories provided by:

Protein, % 27.558

Fat (ether extract), % 13.456

Carbohydrates, % 58.986

*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.