

## DESCRIPTION

Autoclavable Rodent Breeder Diet is specifically designed to support reproduction, lactation, growth and maintenance of rats. 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. This product is coated with a small amount of silicon dioxide to reduce clumping during the autoclaving process.

### Features and Benefits

- **Managed Formulation delivers Constant Nutrition®**
- Highly digestible formula specifically for rats
- High quality animal protein added to create a superior balance of amino acids for optimum performance
- Can be fed to mice and hamsters
- Fortified with extra nutrients to compensate for losses during autoclaving
- Processed with silicon dioxide to reduce sticking and clumping
- Efficient and economical

### Product Forms Available

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

## GUARANTEED ANALYSIS

Crude protein not less than	20.0%
Crude fat not less than	5.0%
Crude fiber not more than	6.0%
Ash not more than	8.0%

## 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, resulting in sticking as the fibrous materials polymerize. **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 corn, dehulled soybean meal, wheat middlings, fish meal, ground wheat, dehydrated alfalfa meal, porcine animal fat preserved with BHA, brewers dried yeast, corn gluten meal, salt, ground oats, calcium carbonate, ground soybean hulls, cane molasses, dried beet pulp, wheat germ, DL-methionine, dicalcium phosphate, pyridoxine hydrochloride, magnesium oxide, menadione dimethylpyrimidinol bisulfite (vitamin K), choline chloride, thiamin mononitrate, soybean oil, silicon dioxide, vitamin A acetate, cholecalciferol, biotin, dl-alpha tocopheryl acetate, riboflavin, folic acid, calcium pantothenate, vitamin B<sub>12</sub> supplement, nicotinic acid, manganous oxide, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate, sodium selenite.

## FEEDING DIRECTIONS

Provide feeders large enough to hold 2 to 3 days supply of Rodent Breeder Diet at one time. Arrange feeders so that animals cannot contaminate feed with feces. Keep plenty of clean, fresh water available for 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.

**NOTE: Do not feed this or any other autoclavable diet prior to autoclaving.**

For information regarding shelf life please visit [www.labdiet.com](http://www.labdiet.com).

## CHEMICAL COMPOSITION<sup>1</sup>

### Nutrients<sup>2</sup>

<b>Protein, %</b>	<b>21.6</b>
Arginine, %	1.30
Cystine, %	0.32
Glycine, %	1.04
Histidine, %	0.56
Isoleucine, %	0.94
Leucine, %	1.81
Lysine, %	1.17
Methionine, %	0.66
Phenylalanine, %	1.01
Tyrosine, %	0.66
Threonine, %	0.85
Tryptophan, %	0.26
Valine, %	1.13
Serine, %	1.07
Aspartic Acid, %	2.23
Glutamic Acid, %	4.35
Alanine, %	1.23
Proline, %	1.51
Taurine, %	0.01
<b>Fat (ether extract), %</b>	<b>5.1</b>
<b>Fat (acid hydrolysis), %</b>	<b>6.7</b>
Cholesterol, ppm	160
Linoleic Acid, %	1.91
Linolenic Acid, %	0.16
Arachidonic Acid, %	<0.01
Omega-3 Fatty Acids, %	0.33
Total Saturated Fatty Acids, %	1.35
Total Monounsaturated Fatty Acids, %	1.35
<b>Fiber (Crude), %</b>	<b>3.8</b>
Neutral Detergent Fiber <sup>3</sup> , %	14.6
Acid Detergent Fiber <sup>4</sup> , %	5.2
<b>Nitrogen-Free Extract (by difference), %</b>	<b>53.0</b>
Starch, %	25.6
Glucose, %	0.25
Fructose, %	0.29
Sucrose, %	1.88
Lactose, %	0.40
<b>Total Digestible Nutrients, %</b>	<b>76.7</b>
<b>Gross Energy, kcal/gm</b>	<b>4.14</b>
<b>Physiological Fuel Value<sup>5</sup>, kcal/gm</b>	<b>3.44</b>
<b>Metabolizable Energy, kcal/gm</b>	<b>3.11</b>
<b>Minerals</b>	
<b>Ash, %</b>	<b>6.0</b>
Calcium, %	0.89
Phosphorus, %	0.70
Phosphorus (non-phytate), %	0.34
Potassium, %	0.91
Magnesium, %	0.25

Sulfur, %	0.31
Sodium, %	0.35
Chloride, %	0.59
Fluorine, ppm	15
Iron, ppm	290
Zinc, ppm	160
Manganese, ppm	140
Copper, ppm	21
Cobalt, ppm	1.0
Iodine, ppm	2.3
Chromium, ppm	2.0
Selenium, ppm	0.30

### Vitamins

Carotene, ppm	0.8
Vitamin K (as menadione), ppm	3.3
Thiamin Hydrochloride, ppm	85
Riboflavin, ppm	17
Niacin, ppm	100
Pantothenic Acid, ppm	29
Choline Chloride, ppm	2000
Folic Acid, ppm	4.6
Pyridoxine, ppm	17
Biotin, ppm	0.30
B <sub>12</sub> , mcg/kg	51
Vitamin A, IU/gm	30
Vitamin D <sub>3</sub> (added), IU/gm	3.1
Vitamin E, IU/kg	80
Ascorbic Acid, mg/gm	—

### Calories provided by:

Protein, %	25.089
Fat (ether extract), %	13.329
Carbohydrates, %	61.582

### \*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.