

**DESCRIPTION**

Advanced Protocol® Certified PicoLab® Rodent Diet 20 is a 20% protein diet formulated for rat, hamster and mouse colonies. It can be used by breeding and maintenance animals to assure no undesirable tissue contaminants. 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 designed for protocols requiring both a certified and irradiated diet. A sample of this product will have been assayed prior to shipment. Irradiation treatment and special 4-ply packaging provide virtually bacteria-free dietary control.

**Features and Benefits**

- [Managed Formulation delivers Constant Nutrition®](#)
- Formulated with 20% protein for breeding and maintenance animals
- Irradiation gives reliable microbial control and eliminates the need for autoclaving
- Precision processing and selection of highest quality ingredients assures constant nutritional quality
- Each package is assayed for environmental contaminants prior to shipment
- 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), special order

**GUARANTEED ANALYSIS**

|                             |       |
|-----------------------------|-------|
| Crude protein not less than | 20.0% |
| Crude fat not less than     | 4.5%  |
| Crude fiber not more than   | 6.0%  |
| Moisture not more than      | 13.0% |
| Ash not more than           | 7.0%  |

**INGREDIENTS**

Ground corn, dehulled soybean meal, wheat middlings, ground wheat, fish meal, cane molasses, wheat germ, dried beet pulp, brewers dried yeast, dehydrated alfalfa meal, ground oats, soybean oil, dried whey, calcium carbonate, salt, DL-methionine, pyridoxine hydrochloride, menadione dimethylpyrimidinol bisulfite, choline chloride, cholecalciferol, vitamin A acetate, dl-alpha tocopheryl acetate, biotin, thiamine mononitrate, vitamin B<sub>12</sub> supplement, nicotinic acid, calcium pantothenate, riboflavin, folic acid, 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.

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>21.1</b> |
| Arginine, %  | 1.22        |
| Cystine, %   | 0.28        |
| Glycine, %   | 0.96        |
| Histidine, %   | 0.50        |
| Isoleucine, %  | 0.98        |
| Leucine, %   | 1.60        |
| Lysine, %  | 1.16        |
| Methionine, %  | 0.70        |
| Phenylalanine, %                                     | 0.91        |
| Tyrosine, %  | 0.60        |
| Threonine, %   | 0.78        |
| Tryptophan, %  | 0.26        |
| Valine, %  | 1.01        |
| Serine, %  | 1.04        |
| Aspartic Acid, %                                     | 2.26        |
| Glutamic Acid, %                                     | 4.27        |
| Alanine, %   | 1.19        |
| Proline, %   | 1.44        |
| Taurine, %   | 0.02        |
| <b>Fat (ether extract), %</b>                        | <b>5.0</b>  |
| <b>Fat (acid hydrolysis), %</b>                      | <b>5.5</b>  |
| Cholesterol, ppm                                     | 142         |
| Linoleic Acid, %                                     | 2.13        |
| Linolenic Acid, %                                    | 0.24        |
| Arachidonic Acid, %                                  | 0.01        |
| Omega-3 Fatty Acids, %                               | 0.38        |
| Total Saturated Fatty Acids, %                       | 0.94        |
| Total Monounsaturated Fatty Acids, %                 | 0.99        |
| <b>Fiber (Crude), %</b>                              | <b>4.3</b>  |
| Neutral Detergent Fiber <sup>3</sup> , %             | 15.2        |
| Acid Detergent Fiber <sup>4</sup> , %                | 5.8         |
| <b>Nitrogen-Free Extract (by difference), %</b>      | <b>53.4</b> |
| Starch, %  | 35.7        |
| Glucose, %   | 0.21        |
| Fructose, %  | 0.25        |
| Sucrose, %   | 3.23        |
| Lactose, %   | 1.34        |
| <b>Total Digestible Nutrients, %</b>                 | <b>76.7</b> |
| <b>Gross Energy, kcal/gm</b>                         | <b>4.09</b> |
| <b>Physiological Fuel Value<sup>5</sup>, kcal/gm</b> | <b>3.42</b> |
| <b>Metabolizable Energy, kcal/gm</b>                 | <b>3.10</b> |
| <b>Minerals</b>                                      |             |
| <b>Ash, %</b>  | <b>6.0</b>  |
| Calcium, %   | 0.81        |
| Phosphorus, %  | 0.60        |
| Phosphorus (non-phytate), %                          | 0.30        |
| Potassium, %   | 1.04        |
| Magnesium, %   | 0.21        |

|                |      |
|----------------|------|
| Sulfur, %      | 0.34 |
| Sodium, %      | 0.30 |
| Chloride, %    | 0.52 |
| Fluorine, ppm  | 6.9  |
| Iron, ppm      | 220  |
| Zinc, ppm      | 84   |
| Manganese, ppm | 80   |
| Copper, ppm    | 13   |
| Cobalt, ppm    | 0.88 |
| Iodine, ppm    | 0.98 |
| Chromium, ppm  | 0.68 |
| Selenium, ppm  | 0.30 |

**Vitamins**

|                                       |      |
|---------------------------------------|------|
| Carotene, ppm                         | 1.5  |
| Vitamin K (as menadione), ppm         | 3.3  |
| Thiamin Hydrochloride, ppm            | 16   |
| Riboflavin, ppm                       | 7.9  |
| Niacin, ppm                           | 87   |
| Pantothenic Acid, ppm                 | 17   |
| Choline Chloride, ppm                 | 2000 |
| Folic Acid, ppm                       | 1.2  |
| Pyridoxine, ppm                       | 15   |
| Biotin, ppm                           | 0.30 |
| B <sub>12</sub> , mcg/kg              | 51   |
| Vitamin A, IU/gm                      | 15   |
| Vitamin D <sub>3</sub> (added), IU/gm | 2.2  |
| Vitamin E, IU/kg                      | 100  |
| Ascorbic Acid, mg/gm                  | —    |

**Calories provided by:**

|                        |        |
|------------------------|--------|
| Protein, %             | 24.608 |
| Fat (ether extract), % | 13.034 |
| Carbohydrates, %       | 62.358 |

**\*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, hemicellulose 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.