

# Autoclavable Rodent 20 Extruded 5RA3

## DESCRIPTION

Autoclavable Rodent 20 Extruded is formulated with 20% protein diet and 4.5% fat. It is designed for rat, hamster and mouse breeding colonies. This diet is fortified with vitamins to compensate for loss during autoclaving and contains silicon dioxide which reduces clumping. 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. LabDiet® 5RA3 is offered as an autoclavable extruded particle; pelleted and/or irradiated/non-irradiated options also available.

## Features and Benefits

- [Managed Formulation delivers Constant Nutrition®](#)
- High quality animal protein added to create a superior balance of amino acids for optimum performance
- Recommended for rat breeding colonies and mice not requiring a high energy diet
- Similar formulation to LabDiet® 5053 but fortified with vitamins to account for losses during the autoclave process
- Coated with silicon dioxide to reduce sticking and clumping during autoclaving

## Product Forms Available

- Extruded Particle, 25 lb **Catalog #** 3006933-703

## Irradiated Versions Available

- 5053: PicoLab® Rodent Diet 20, Pelleted, 30 lb **Catalog #** 3005740-220
- 5053: PicoLab® Rodent Diet 20, Meal, 30 lb 3005740-020
- 5R53: PicoLab® Rodent Diet 20 Extruded, 20 lb 3002890-712
- 5R53: PicoLab® Rodent Diet 20 Extruded, Meal, 30 lb 3005839-020
- 5061: Pico-Vac® Lab Rodent Diet, Pelleted, 5 lb vacuum sealed, 6 per box, 30 lb 0006954
- 5K75: Certified PicoLab® Rodent 20, Pelleted, 30 lb 3005965-220
- 5LU7: PicoLab® Macro-Pack™ Rodent 20 75G, Pelleted, 15kg 0066400

## Non-Irradiated Versions Available

- 5L0B: Laboratory Rodent Diet 20, Pelleted, 15 kg **Catalog #** 0067097
- 5RA3: Lab Rodent 20 Auto Extruded, 25 lb 3006933-703
- 5R53: Rodent Diet 20 Extruded, 15 kg 3002890-748
- 50A3: Autoclavable Rodent 20 Pelleted, 30 lb 3007163-446

## GUARANTEED ANALYSIS

Crude protein not less than	20.00%
Crude fat not less than	4.50%
Crude fiber not more than	6.00%
Ash not more than	7.00%
Moisture not more than	12.00%

## INGREDIENTS

Ground Corn, Dehulled Soybean Meal, Wheat Middlings, Ground Wheat, Fish Meal, Wheat Germ, Dried Plain Beet Pulp, Cane Molasses, Brewers Dried Yeast, Ground Oats, Dehydrated Alfalfa Meal, Soybean Oil, Dried Whey, Calcium Carbonate, Salt, DL-Methionine, Pyridoxine Hydrochloride, Menadione Dimethylpyrimidinol Bisulfite (Vitamin K), Thiamine Mononitrate, Choline Chloride, Cholecalciferol (Vitamin D<sub>3</sub>), Silicon Dioxide, Vitamin A Acetate, Folic Acid, DL-Alpha Tocopheryl Acetate (Vitamin E), Riboflavin Supplement, Calcium Pantothenate, Manganous Oxide, Vitamin B12 Supplement, Zinc Oxide, Nicotinic Acid, Ferrrous Carbonate, Copper Sulfate, Zinc Sulfate, Calcium Iodate, Cobalt Carbonate, Biotin, 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.

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>21.0</b>	Chloride, % . . . . .	0.53
Arginine, % . . . . .	1.29	Fluorine, ppm . . . . .	9.1
Cystine, % . . . . .	0.36	Iron, ppm . . . . .	184
Glycine, % . . . . .	0.97	Zinc, ppm . . . . .	80
Histidine, % . . . . .	0.52	Manganese, ppm . . . . .	82
Isoleucine, % . . . . .	0.87	Copper, ppm . . . . .	13
Leucine, % . . . . .	1.57	Cobalt, ppm . . . . .	0.72
Lysine, % . . . . .	1.19	Iodine, ppm . . . . .	0.97
Methionine, % . . . . .	0.62	Chromium (added), ppm . . . . .	0.01
Phenylalanine, % . . . . .	0.91	Selenium, ppm . . . . .	0.37
Tyrosine, % . . . . .	0.61		
Threonine, % . . . . .	0.79		
Tryptophan, % . . . . .	0.24		
Valine, % . . . . .	0.97		
Serine, % . . . . .	0.99		
Aspartic Acid, % . . . . .	2.21		
Glutamic Acid, % . . . . .	4.22		
Alanine, % . . . . .	1.19		
Proline, % . . . . .	1.31		
Taurine, % . . . . .	0.03		

<b>Fat (ether extract), %</b> . . . . .	<b>5.1</b>		
<b>Fat (acid hydrolysis), %</b> . . . . .	<b>6.4</b>		
Cholesterol, ppm . . . . .	136		
Linoleic Acid, % . . . . .	2.29		
Linolenic Acid, % . . . . .	0.28		
Arachidonic Acid, % . . . . .	0.02		
Omega-3 Fatty Acids, % . . . . .	0.45		
Total Saturated Fatty Acids, %	0.80		
Total Monounsaturated Fatty Acids, % . . . . .	0.99		
<b>Fiber (Crude), %</b> . . . . .	<b>4.3</b>		
Neutral Detergent Fiber <sup>3</sup> , % . . . . .	15.3		
Acid Detergent Fiber <sup>4</sup> , % . . . . .	5.6		
<b>Nitrogen-Free Extract (by difference), %</b> . . . . .	<b>53.5</b>		
Starch, % . . . . .	28.1		
Sucrose, % . . . . .	2.69		
<b>Total Digestible Nutrients, %</b>	<b>75.0</b>		
<b>Gross Energy, kcal/gm</b> . . . . .	<b>4.13</b>		
<b>Physiological Fuel Value<sup>5</sup>, kcal/gm</b> . . . . .	<b>3.44</b>		
<b>Metabolizable Energy, kcal/gm</b> . . . . .	<b>3.03</b>		

### Vitamins

Carotene, ppm . . . . .	1.5
Vitamin K, ppm . . . . .	3.3
Thiamin, ppm . . . . .	83
Riboflavin, ppm . . . . .	16
Niacin, ppm . . . . .	94
Pantothenic Acid, ppm . . . . .	26
Choline, ppm . . . . .	1560
Folic Acid, ppm . . . . .	4.0
Pyridoxine, ppm . . . . .	17
Biotin, ppm . . . . .	0.30
B <sub>12</sub> , mcg/kg . . . . .	45
Vitamin A, IU/gm . . . . .	30
Vitamin D <sub>3</sub> (added), IU/gm . . . . .	4.0
Vitamin E, IU/kg . . . . .	68
Ascorbic Acid, mg/gm . . . . .	0.00

### Calories provided by:

Protein, % . . . . .	24.416
Fat (ether extract), % . . . . .	13.423
Carbohydrates, % . . . . .	62.162

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.

NOTE: When assayed, actual levels may vary from calculated values.