

# LabDiet® JL Rat and Mouse/Auto 6F 5K52

## DESCRIPTION

LabDiet® JL Rat and Mouse/Auto 6F is a 6% fat, complete life cycle diet formulated to meet the nutritional requirements of maintenance, breeding and lactation of rats and mice. It is the primary formula used by The Jackson Laboratory. The 5K52 is an autoclavable diet with fortified vitamin levels but does not include silicon dioxide to reduce clumping. This diet is 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® 5K52 comes in a cylinder pellet but is also available in extruded form (5K0G).

### Features and Benefits

- [Managed Formulation delivers Constant Nutrition®](#)
- Meets the nutrient requirements for maintenance, breeding and lactation of rats and mice.
- Primary formula used at The Jackson Laboratory, containing 6% fat.
- Specific information on strains fed 5K52 can be obtained from The Jackson Laboratory.
- Fortified with vitamins to account for losses during the autoclave process.
- Is not coated with silicon dioxide.

Product Forms Available	Catalog #
• Cylinder pellet, (3/8" x 3/4"), 25 lb	0006666
Other Versions Available	Catalog #
• 5K0G: JL Rat and Mouse/Auto 6F EXT, 25 lb	0036959

## GUARANTEED ANALYSIS

Crude protein not less than	18.00%
Crude fat not less than	6.00%
Crude fiber not more than	5.00%
Moisture not more than	12.00%
Ash not more than	8.00%
Sodium not more than	0.58%

## INGREDIENTS

Ground Wheat, Ground Corn, Ground Oats, Wheat Middlings, Fish Meal, Dehulled Soybean Meal, Soybean Oil, Dehydrated Alfalfa Meal, Corn Gluten Meal, Dicalcium Phosphate, Brewers Dried Yeast, Calcium Carbonate, Menadione Dimethylpyrimidinol Bisulfite (Vitamin K), Salt, DL-Methionine, Choline Chloride, Magnesium Oxide, Thiamine Mononitrate, Pyridoxine Hydrochloride, Cholecalciferol (Vitamin D3), Vitamin A Acetate, Manganese Oxide, Calcium Pantothenate, Ferrous Sulfate, Calcium Iodate, DL-Alpha Tocopheryl Acetate (Vitamin E), Folic Acid, Vitamin B12 Supplement, Riboflavin-5-Phosphate, Zinc Oxide, Ferrous Carbonate, Nicotinic Acid, Copper Sulfate, Zinc Sulfate, Cobalt Carbonate, Biotin.

## FEEDING DIRECTIONS

Feed ad libitum to rodents. Provide plenty of fresh clean water at all times.

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

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

<b>Nutrients<sup>2</sup></b>		
<b>Protein, %</b>	<b>19.5</b>	Iron, ppm
Arginine, %	1.05	Zinc, ppm
Cystine, %	0.37	Manganese, ppm
Glycine, %	0.94	Copper, ppm
Histidine, %	0.45	Cobalt, ppm
Isoleucine, %	0.77	Iodine, ppm
Leucine, %	1.54	Chromium (added), ppm
Lysine, %	0.92	Selenium, ppm
Methionine, %	0.61	
Phenylalanine, %	0.88	<b>Vitamins</b>
Tyrosine, %	0.57	Carotene, ppm
Threonine, %	0.67	Vitamin K, ppm
Tryptophan, %	0.23	Thiamin, ppm
Valine, %	0.90	Riboflavin, ppm
Serine, %	0.86	Niacin, ppm
Aspartic Acid, %	1.69	Pantothenic Acid, ppm
Glutamic Acid, %	3.96	Choline, ppm
Alanine, %	1.13	Folic Acid, ppm
Proline, %	1.35	Pyridoxine, ppm
Taurine, %	0.05	Biotin, ppm
<b>Fat (ether extract), %</b>	<b>6.2</b>	B <sub>12</sub> , mcg/kg
<b>Fat (acid hydrolysis), %</b>	<b>7.5</b>	Vitamin A, IU/gm
Cholesterol, ppm	243	Vitamin D <sub>3</sub> (added), IU/gm
Linoleic Acid, %	2.83	Vitamin E, IU/kg
Linolenic Acid, %	0.36	Ascorbic Acid, mg/gm
Arachidonic Acid, %	0.02	
Omega-3 Fatty Acids, %	0.62	<b>Calories provided by:</b>
Total Saturated Fatty Acids, %	1.13	Protein, %
Total Monounsaturated Fatty Acids, %	1.36	Fat (ether extract), %
<b>Fiber (Crude), %</b>	<b>3.9</b>	Carbohydrates, %
Neutral Detergent Fiber <sup>3</sup> , %	15.2	
Acid Detergent Fiber <sup>4</sup> , %	5.0	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.
<b>Nitrogen-Free Extract (by difference), %</b>	<b>54.0</b>	2. Nutrients expressed as percent of ration except where otherwise indicated. Moisture content is assumed to be 10.0% for the purpose of calculations.
Starch, %	38.3	3. NDF = approximately cellulose, hemicellulose and lignin.
Sucrose, %	0.67	4. ADF = approximately cellulose and lignin.
<b>Total Digestible Nutrients, %</b>	<b>76.0</b>	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.
<b>Gross Energy, kcal/gm</b>	<b>4.21</b>	<b>NOTE: When assayed, actual levels may vary from calculated values.</b>
<b>Physiological Fuel Value<sup>5</sup>, kcal/gm</b>	<b>3.50</b>	
<b>Metabolizable Energy, kcal/gm</b>	<b>3.14</b>	
<b>Minerals</b>		
Ash, %	6.3	
Calcium, %	1.31	
Phosphorus, %	0.93	
Phosphorus (non-phytate), %	0.70	
Potassium, %	0.61	
Magnesium, %	0.22	
Sulfur, %	0.28	
Sodium, %	0.28	
Chloride, %	0.49	
Fluorine, ppm	36	