

LabDiet® JL Rat and Mouse/Auto 4F 5K54

DESCRIPTION

LabDiet® JL Rat and Mouse/Auto 4F is a 4% fat, complete life cycle diet formulated to meet the nutrient requirements of rats and mice. Used by The Jackson Laboratory, 5K54 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.

Features and Benefits

- [Managed Formulation delivers Constant Nutrition®](#)
- Contains 4% fat and designed for rats and mice.
- Specific information on strains fed 5K54 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

- Cylinder pellet, (3/8" x 3/4"), 25 lb

Catalog

0006667

GUARANTEED ANALYSIS

Crude protein not less than	18.00%
Crude fat not less than	4.00%
Crude fiber not more than	5.00%
Moisture not more than	12.00%
Ash not more than	8.00%
Sodium not more than	0.52%

INGREDIENTS

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

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.

CHEMICAL COMPOSITION¹

Nutrients²

Protein, %	19.0	Iron, ppm	350
Arginine, %	1.00	Zinc, ppm	81
Cystine, %	0.36	Manganese, ppm	160
Glycine, %	0.90	Copper, ppm	10
Histidine, %	0.43	Cobalt, ppm	0.81
Isoleucine, %	0.74	Iodine, ppm	2.2
Leucine, %	1.49	Chromium (added), ppm	0.01
Lysine, %	0.86	Selenium, ppm	0.38

Vitamins

Carotene, ppm	1.6
Vitamin K, ppm	20
Thiamin, ppm	78
Riboflavin, ppm	9.0
Niacin, ppm	87
Pantothenic Acid, ppm	37
Choline, ppm	1610
Folic Acid, ppm	1.9
Pyridoxine, ppm	15
Biotin, ppm	0.30
B ₁₂ , mcg/kg	51
Vitamin A, IU/gm	20
Vitamin D ₃ (added), IU/gm	4.4
Vitamin E, IU/kg	66
Ascorbic Acid, mg/gm	0.00

Fat (ether extract), % 4.5

Fat (acid hydrolysis), % 5.8

Cholesterol, ppm 216

Linoleic Acid, % 1.94

Linolenic Acid, % 0.24

Arachidonic Acid, % 0.02

Omega-3 Fatty Acids, % 0.46

Total Saturated Fatty Acids, % 0.87

Total Monounsaturated

Fatty Acids, % 1.00

Fiber (Crude), % 4.0

Neutral Detergent Fiber³, % 15.5

Acid Detergent Fiber⁴, % 5.1

Nitrogen-Free Extract

(by difference), % 56.3

Starch, % 40.4

Sucrose, % 0.61

Total Digestible Nutrients, % 73.8

Gross Energy, kcal/gm 3.42

Physiological Fuel Value⁵,

kcal/gm 3.42

Metabolizable Energy,

kcal/gm 3.06

Minerals

Ash, % 6.1

Calcium, % 1.3

Phosphorus, % 0.90

Phosphorus (non-phytate), % 0.67

Potassium, % 0.59

Magnesium, % 0.22

Sulfur, % 0.28

Sodium, % 0.27

Chloride, % 0.48

Fluorine, ppm 35

Calories provided by:

Protein, % 22.231

Fat (ether extract), % 11.855

Carbohydrates, % 65.914

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.