

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

DESCRIPTION

LabDiet® JL Rat and Mouse/Auto 4F is a complete life-cycle diet recommended for rats, mice and hamsters. This diet is formulated using the unique and innovative concept of Constant Nutrition®, paired with the selection of highest quality ingredients to assure minimal inherent biological variation in long-term studies. 5K54 is used at The Jackson Laboratory.

Features and Benefits

- 5K54 is one of our JL breeding diets used at The Jackson Laboratory. Specific information on strains fed can be obtained from The Jackson Laboratory
- Fortified with extra nutrients to compensate for losses during autoclaving
- Processed with silicon dioxide to reduce sticking and clumping

Product Forms Available

- Cylinder shaped pellet, 3/8" diameter x 3/4" length

Irradiated Versions Available

- 5LG6 JL Rat and Mouse Irr 4F

GUARANTEED ANALYSIS

Crude protein not less than	18.0%
Crude fat not less than	4.0%
Crude fiber not more than	5.0%
Ash not more than	8.0%
Added minerals not more than	3.0%

INGREDIENTS

Ground wheat, ground corn, wheat middlings, ground oats, fish meal, dehulled soybean meal, corn gluten meal, dehydrated alfalfa meal, soybean oil, dicalcium phosphate, monocalcium phosphate, brewers dried yeast, calcium carbonate, menadione dimethylpyrimidinol bisulfite, salt, DL-methionine, choline chloride, pyridoxine hydrochloride, magnesium oxide, thiamin mononitrate, cholecalciferol, vitamin A acetate, calcium pantothenate, ferrous sulfate, biotin, manganous oxide, dl-alpha tocopheryl acetate, folic acid, vitamin B₁₂ supplement, riboflavin, nicotinic acid, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, cobalt carbonate, calcium iodate, sodium selenite.

FEEDING DIRECTIONS

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

AUTOCLAVING SUGGESTIONS

During the autoclaving process, the pellets can be placed on trays, in small bags or in larger bags, as long as the pellets are stacked no more than 3 inches high. When steam autoclaved, the pellets swell and exert force on adjacent pellets. If confined by a bag or container, the pressure causes sticking as greater polymerization of fibrous materials occurs under such conditions. **Assay before and after autoclaving:** Conditions of sterilization must be determined for each autoclaving unit. It is best to assay the diet before and after sterilization to determine nutrient losses. Microbiological evaluation should be done to insure sterilization is achieved.

For Product Availability, visit www.labdiet.com.

CHEMICAL COMPOSITION

Nutrients**

Protein, %	19.0
Arginine, %	0.99
Cystine, %	0.25
Glycine, %	0.92
Histidine, %	0.43
Isoleucine, %	0.83
Leucine, %	1.52
Lysine, %	0.93
Methionine, %	0.73
Phenylalanine, %	0.83
Tyrosine, %	0.54
Threonine, %	0.66
Tryptophan, %	0.22
Valine, %	0.88
Serine, %	0.93
Aspartic Acid, %	1.77
Glutamic Acid, %	4.35
Alanine, %	1.12
Proline, %	1.51
Taurine, %	0.03

Fat (ether extract), % 4.6

Fat (acid hydrolysis), % 5.6

Cholesterol, ppm	240
Linoleic Acid, %	2.07
Linolenic Acid, %	0.23
Arachidonic Acid, %	0.01
Omega-3 Fatty Acids, %	0.33
Total Saturated Fatty Acids, %	1.01
Total Monosaturated Fatty Acids, %	1.04
Fiber (Crude), %	4.2
Neutral Detergent Fiber ³ , %	15.4
Acid Detergent Fiber ⁴ , %	5.2

Nitrogen-Free Extract

(by difference), % 55.5

Starch, %	40.7
Glucose, %	0.16
Fructose, %	0.19
Sucrose, %	0.58
Lactose, %	0.00

Total Digestible Nutrients, % 73.8

Gross Energy, kcal/gm 4.02

Physiological Fuel Value⁵,

kcal/gm 3.40

Metabolizable Energy,

kcal/gm 3.07

Minerals

Ash, %	6.3
Calcium, %	1.17
Phosphorus, %	0.92
Phosphorus (non-phytate), %	0.68
Potassium, %	0.63
Magnesium, %	0.22

Sulfur, %	0.33
Sodium, %	0.26
Chlorine, %	0.45
Fluorine, ppm	38
Iron, ppm	370
Zinc, ppm	84
Manganese, ppm	160
Copper, ppm	10
Cobalt, ppm	0.80
Iodine, ppm	2.2
Chromium, ppm	2.0
Selenium, ppm	0.32

Vitamins

Carotene, ppm	1.5
Vitamin K (as menadione), ppm	20
Thiamin Hydrochloride, ppm	78
Riboflavin, ppm	9.0
Niacin, ppm	90
Pantothenic Acid, ppm	37
Choline Chloride, ppm	2000
Folic Acid, ppm	1.9
Pyridoxine, ppm	15
Biotin, ppm	0.30
B ₁₂ , mcg/kg	50
Vitamin A, IU/gm	20
Vitamin D ₃ (added), IU/gm	4.3
Vitamin E, IU/kg	66
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	22.382
Fat (ether extract), %	12.192
Carbohydrates, %	65.426

*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.

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www.labdiet.com