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

DESCRIPTION

LabDiet® JL Rat and Mouse/Auto 6F 5K52 is an autoclavable, 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 5K52 is similar in formulation to 5K0Q, the primary diet used at The Jackson Laboratories. This diet does not contain silicon dioxide which helps to reduce diet clumping post-autoclaving.

Features and Benefits

- Managed Formulation delivers Constant Nutrition®
- Excellent diet to meet the nutrient requirements for maintenance, breeding and lactation.
- Is similar in formulation to 5K0Q, the primary diet at The Jackson Laboratory. Specific information on strains fed can be obtained from The Jackson Laboratory.
- Standard cylinder shaped feed pellet.
- Does not contain silicon dioxide, an additive used to reduce diet clumping post-autoclaving.
- Fortified with extra nutrients to compensate for losses during processing and autoclaving.

Product Forms Available

- 5K52: Cylinder shaped pellet - 3/8" diameter by 3/4" length

Other Versions Available

- 5LG4/5LL4 JL Rat and Mouse Irr 6F
- 5K0Q JL 6% Oval

GUARANTEED ANALYSIS

Crude protein not less than	18.0%
Crude fat not less than	6.0%
Crude fiber not more than	5.0%

AUTOCLAVING SUGGESTIONS

During the autoclaving process, the pellets can beplaced 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 studies should be done also to insure the degree of sterilization desired.

INGREDIENTS

Ground wheat, ground corn, wheat middlings, ground oats, fish meal, dehulled soybean meal, soybean oil, corn gluten meal, dehydrated alfalfa meal, dicalcium phosphate, brewers dried yeast, calcium carbonate, menadione dimethylpyrimidinol bisulfite, salt, DL-methionine, choline chloride, magnesium oxide, thiamine mononitrate, pyridoxine hydrochloride, cholecalciferol, vitamin A acetate, calcium pantothenate, ferrous sulfate, biotin, manganous oxide, dl-alpha tocopheryl acetate, folic acid, vitamin B_{12} supplement, riboflavin, nicotinic acid, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, cobalt carbonate, calcium iodate.

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.

For Product Availability, visit www.labdiet.com.

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CHEMICAL COMPOSITION

Nutrients[**]

Protein, %	**19.3**
Arginine, %	1.03
Cystine, %	0.25
Glycine, %	0.94
Histidine, %	0.44
Isoleucine, %	0.87
Leucine, %	1.52
Lysine, %	0.97
Methionine, %	0.73
Phenylalanine, %	0.85
Tyrosine, %	0.56
Threonine, %	0.68
Tryptophan, %	0.23
Valine, %	0.90
Serine, %	0.98
Aspartic Acid, %	1.87
Glutamic Acid, %	4.52
Alanine, %	1.13
Proline, %	1.53
Taurine, %	0.03
Fat (ether extract), %	**6.2**
Fat (acid hydrolysis), %	**7.2**
Cholesterol, ppm	240
Linoleic Acid, %	2.88
Linolenic Acid, %	0.37
Arachidonic Acid, %	0.01
Omega-3 Fatty Acids, %	0.46
Total Saturated Fatty Acids, %	1.24
Total Monosaturated Fatty Acids, %	1.37
Fiber (Crude), %	**4.3**
Neutral Detergent Fiber[3], %	15.1
Acid Detergent Fiber[4], %	5.2
Nitrogen-Free Extract (by difference), %	**53.6**
Starch, %	38.9
Glucose, %	0.12
Fructose, %	0.15
Sucrose, %	0.62
Lactose, %	0.00
Total Digestible Nutrients, %	**76.3**
Gross Energy, kcal/gm	**4.17**
Physiological Fuel Value[5], kcal/gm	**3.47**
Metabolizable Energy, kcal/gm	**3.17**

Minerals

Ash, %	**6.5**
Calcium, %	1.17
Phosphorus, %	0.93
Phosphorus (non-phytate), %	0.68
Potassium, %	0.66
Magnesium, %	0.22
Sulfur, %	0.33
Sodium, %	0.26
Chloride, %	0.45
Fluorine, ppm	37
Iron, ppm	380
Zinc, ppm	85
Manganese, ppm	160
Copper, ppm	11
Cobalt, ppm	0.80
Iodine, ppm	2.1
Chromium (added), ppm	2.0
Selenium, ppm	0.30

Vitamins

Carotene, ppm	1.5
Vitamin K (as menadione), ppm	20
Thiamin Hydrochloride, ppm	79
Riboflavin, ppm	9.0
Niacin, ppm	90
Pantothenic Acid, ppm	37
Choline Chloride, ppm	2000
Folic Acid, ppm	1.9
Pyridoxine, ppm	10
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	45
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	22.238
Fat (ether extract), %	16.028
Carbohydrates, %	61.734

*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