

DESCRIPTION

LabDiet® JL Mouse Breeder/Auto is a breeder ration specifically designed for mice. 5K20 contains a minimum of 10% fat to fulfill the metabolic needs of certain mice strains. 5K20 is used at The Jackson Laboratory.

Features and Benefits

- Autoclavable to minimize microbiological load.
- Precision processing and selection of highest quality ingredients assures Constant Nutrition® quality
- Designed to meet the energy needs of breeding mouse colonies, transgenic strains, and mice exposed to higher stress levels.
- Fortified with extra nutrients to compensate for losses during autoclaving
- Processed with silicon dioxide to reduce sticking and clumping
- 5K20 is one of our JL breeding diets used at The Jackson Laboratory. Specific information on strains fed can be obtained from The Jackson Laboratory

Product Forms Available

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

GUARANTEED ANALYSIS

| | |
|------------------------------|-------|
| Crude protein not less than | 17.0% |
| Crude fat not less than | 10.0% |
| Crude fiber not more than | 2.5% |
| Ash not more than | 8.0% |
| Added minerals not more than | 3.5% |

INGREDIENTS

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

FEEDING DIRECTIONS

Feed free-choice as complete ration to breeder and lactating mice.

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.

12/11/09

CHEMICAL COMPOSITION¹

Nutrients**

| | |
|--|-------------|
| Protein, % | 18.0 |
| Arginine, % | 0.98 |
| Cystine, % | 0.23 |
| Glycine, % | 0.92 |
| Histidine, % | 0.41 |
| Isoleucine, % | 0.81 |
| Leucine, % | 1.34 |
| Lysine, % | 1.00 |
| Methionine, % | 0.76 |
| Phenylalanine, % | 0.75 |
| Tyrosine, % | 0.46 |
| Threonine, % | 0.63 |
| Tryptophan, % | 0.23 |
| Valine, % | 0.83 |
| Serine, % | 0.94 |
| Aspartic Acid, % | 1.87 |
| Glutamic Acid, % | 4.21 |
| Alanine, % | 1.06 |
| Proline, % | 1.38 |
| Taurine, % | 0.03 |
| Fat (ether extract), % | 11.0 |
| Fat (acid hydrolysis), % | 12.2 |
| Cholesterol, ppm | 270 |
| Linoleic Acid, % | 5.66 |
| Linolenic Acid, % | 0.71 |
| Arachidonic Acid, % | 0.01 |
| Omega-3 Fatty Acids, % | 0.82 |
| Total Saturated Fatty Acids, % | 2.00 |
| Total Monosaturated Fatty Acids, % | 2.46 |
| Fiber (Crude), % | 2.0 |
| Neutral Detergent Fiber ³ , % | 10.1 |
| Acid Detergent Fiber ⁴ , % | 2.5 |
| Nitrogen-Free Extract (by difference), % | 52.0 |
| Starch, % | 42.7 |
| Glucose, % | 0.14 |
| Fructose, % | 0.13 |
| Sucrose, % | 0.65 |
| Lactose, % | 0.67 |
| Total Digestible Nutrients, % | 86.6 |
| Gross Energy, kcal/gm | 4.75 |
| Physiological Fuel Value⁵, kcal/gm | 3.84 |
| Metabolizable Energy, kcal/gm | 3.64 |

| | |
|----------------|------|
| Sulfur, % | 0.32 |
| Sodium, % | 0.40 |
| Chlorine, % | 0.67 |
| Fluorine, ppm | 33 |
| Iron, ppm | 310 |
| Zinc, ppm | 140 |
| Manganese, ppm | 140 |
| Copper, ppm | 25 |
| Cobalt, ppm | 0.70 |
| Iodine, ppm | 1.9 |
| Chromium, ppm | 1.6 |
| Selenium, ppm | 0.38 |

| | |
|---------------------------------------|------|
| Vitamins | |
| Carotene, ppm | 0.30 |
| Vitamin K (as menadione), ppm | 3.2 |
| Thiamin Hydrochloride, ppm | 85 |
| Riboflavin, ppm | 7.9 |
| Niacin, ppm | 97 |
| Pantothenic Acid, ppm | 22 |
| Choline Chloride, ppm | 2200 |
| Folic Acid, ppm | 3.3 |
| Pyridoxine, ppm | 15 |
| Biotin, ppm | 0.30 |
| B ₁₂ , mcg/kg | 51 |
| Vitamin A, IU/gm | 44 |
| Vitamin D ₃ (added), IU/gm | 3.3 |
| Vitamin E, IU/kg | 66 |
| Ascorbic Acid, mg/gm | — |

Calories provided by:

| | |
|------------------------|--------|
| Protein, % | 18.804 |
| Fat (ether extract), % | 26.969 |
| Carbohydrates, % | 54.226 |

*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.