

## 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, dehulled soybean meal, fish meal, soybean oil, dicalcium phosphate, corn oil, dried whey, calcium carbonate, salt, DL-methionine, choline chloride, pyridoxine hydrochloride, menadione dimethylpyrimidinol bisulfite, thiamin mononitrate, vitamin A acetate, cholecalciferol, biotin, folic acid, dl-alpha tocopheryl acetate, calcium pantothenate, nicotinic acid, vitamin B<sub>12</sub> supplement, riboflavin, copper sulfate, manganous oxide, zinc oxide, ferrous carbonate, zinc sulfate, calcium iodate, cobalt carbonate, sodium selenite.

## FEEDING DIRECTIONS

Feed free-choice as complete ration to mice and 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](http://www.labdiet.com).

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

### Nutrients\*\*

<b>Protein, %</b>	<b>18.0</b>
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
<b>Fat (ether extract), %</b>	<b>11.0</b>
<b>Fat (acid hydrolysis), %</b>	<b>12.2</b>
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
<b>Fiber (Crude), %</b>	<b>2.0</b>
Neutral Detergent Fiber <sup>3</sup> , %	10.1
Acid Detergent Fiber <sup>4</sup> , %	2.5
<b>Nitrogen-Free Extract</b>	
<b>(by difference), %</b>	<b>52.0</b>
Starch, %	42.7
Glucose, %	0.14
Fructose, %	0.13
Sucrose, %	0.65
Lactose, %	0.67
<b>Total Digestible Nutrients, %</b>	<b>86.6</b>
<b>Gross Energy, kcal/gm</b>	<b>4.75</b>
<b>Physiological Fuel Value<sup>5</sup>,</b>	
<b>kcal/gm</b>	<b>3.84</b>
<b>Metabolizable Energy,</b>	
<b>kcal/gm</b>	<b>3.64</b>

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

<b>Vitamins</b>	
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 <sub>12</sub> , mcg/kg	51
Vitamin A, IU/gm	44
Vitamin D <sub>3</sub> (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.