Mouse Diet 9F 5020*

DESCRIPTION

Mouse Diet 9F is a complete life-cycle diet containing 9% fat. 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. Many mouse strains vary in their nutritional needs depending upon their genetic background. Mouse Diet 9F is specially formulated for those strains that require less energy to fulfill their metabolic needs than is provided by Mouse Diet 5015.

Features and Benefits

- Constant Nutrition® content for minimal nutritional variation
- High-energy diet that supports post-partum reproduction where females are under stress of lactation and reproduction
- High quality animal protein added to create a superior balance of amino acids for optimum performance
- Wide ingredient spectrum
- Economical for breeder colonies

Product Forms Available

- Oval pellet, 10 mm x 16 mm x 25 mm length (3/8"x5/8"x1")
- Meal (ground pellets), special order

Other Versions Available

- 5021 Autoclavable Mouse Breeder Diet

GUARANTEED ANALYSIS

Crude protein not less than	20.0%
Crude fat not less than	9.0%
Crude fiber not more than	3.0%
Ash not more than	6.5%

INGREDIENTS

Ground wheat, ground corn, dehulled soybean meal, wheat germ, fish meal, brewers dried yeast, corn gluten meal, porcine animal fat preserved with BHA, soybean oil, calcium carbonate, salt, DL-methionine, choline chloride, menadione dimethylpyrimidinol bisulfite, dicalcium phosphate, monocalcium phosphate, cholecalciferol, pyridoxine hydrochloride, vitamin A acetate, biotin, dried whey, folic acid, dl-alpha tocopheryl acetate, thiamin mononitrate, calcium pantothenate, vitamin B_{12} supplement, lecithin, riboflavin, nicotinic acid, casein, manganous oxide, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate, sodium selenite.

FEEDING DIRECTIONS

Mouse Diet 9F should be fed to breeders and lactating mice on a free-choice basis. Plenty of fresh, clean water should be available to the animals at all times.

Mice-Adult mice will eat up to 5 grams of pelleted ration daily. Some of the larger strains may eat as much as 8 grams per day per animal, especially during heavy lactation. Feed should be available on a free choice basis in wire feeders above the floor of the cage.

CHEMICAL COMPOSITION[1]

Nutrients[2]

Protein, %	**21.6**
Arginine, %	1.14
Cystine, %	0.31
Glycine, %	0.93
Histidine, %	0.50
Isoleucine, %	1.01
Leucine, %	1.81
Lysine, %	1.12
Methionine, %	0.67
Phenylalanine, %	0.96
Tyrosine, %	0.63
Threonine, %	0.78
Tryptophan, %	0.25
Valine, %	1.02
Serine, %	1.06
Aspartic Acid, %	2.11
Glutamic Acid, %	4.45
Alanine, %	1.33
Proline, %	1.53
Taurine, %	0.02
Fat (ether extract), %	**9.0**
Fat (acid hydrolysis), %	**9.1**
Cholesterol, ppm	210
Linoleic Acid, %	2.31
Linolenic Acid, %	0.21
Arachidonic Acid, %	0.02
Omega-3 Fatty Acids, %	0.32
Total Saturated Fatty Acids, %	2.71
Total Monounsaturated Fatty Acids, %	2.87
Fiber (Crude), %	**2.2**
Neutral Detergent Fiber[3], %	10.9
Acid Detergent Fiber[4], %	3.0
Nitrogen-Free Extract (by difference), %	**52.0**
Starch, %	39.4
Glucose, %	0.16
Fructose, %	0.16
Sucrose, %	0.69
Lactose, %	0.77
Total Digestible Nutrients,%	**85.2**
Gross Energy, kcal/gm	**4.60**
Physiological Fuel Value[5], kcal/gm	**3.75**
Metabolizable Energy, kcal/gm	**3.56**

Minerals

Ash, %	**5.0**
Calcium, %	0.81
Phosphorus, %	0.60
Phosphorus (non-phytate), %	0.34
Potassium, %	0.69
Magnesium, %	0.16
Sulfur, %	0.27
Sodium, %	0.25
Chlorine, %	0.42
Fluorine, ppm	12
Iron, ppm	200
Zinc, ppm	120
Manganese, ppm	115
Copper, ppm	17
Cobalt, ppm	0.55
Iodine, ppm	1.5
Chromium, ppm	0.56
Selenium, ppm	0.24

Vitamins

Carotene, ppm	0.8
Vitamin K (as menadione),ppm	3.1
Thiamin Hydrochloride, ppm	15
Riboflavin, ppm	8.0
Niacin, ppm	90
Pantothenic Acid, ppm	21
Choline Chloride, ppm	2200
Folic Acid, ppm	2.9
Pyridoxine, ppm	8.0
Biotin, ppm	0.30
B_{12}, mcg/kg	51
Vitamin A, IU/gm	15
Vitamin D_3 (added), IU/gm	3.3
Vitamin E, IU/kg	57
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	23.066
Fat (ether extract), %	21.570
Carbohydrates, %	55.364

*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.