Advanced Protocol®

PicoLab® Verified Mouse 50 IF

5V03*

DESCRIPTION

Advanced Protocol® PicoLab® Verified Mouse 50 IF Diet is a Constant Nutrition® formulation providing 20% protein for mouse colonies that require extra levels of energy and where dietary estrogenic activity needs to be assured. 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. Irradiation and special 4-ply packaging provide a virtually bacteria-free diet. Especially suited for transgenic mice and breeding mice colonies maintained in barrier facilities.

Features and Benefits

- Constant Nutrition[®] formula helps minimize nutritional variables
- Formulated with 20% protein and 9% total fat for strains requiring high nutrient density diets
- Verified to contain less than 50 ppm total isoflavones (genistein, daidzein and glycitein)
- Precision processing assures Constant Nutrition® quality
- Irradiation gives reliable microbial control and eliminates the need for autoclaving

Product Forms Available

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

Other Versions Available

 5V06: Advanced Protocol Extruded Verified Mouse 50 IF Diet Strain differences have been shown when different dietary fat levels are fed. Breeding performance is improved in BALBc mice when fed higher fat levels while C57BL/6 mice fed high fat diets tend to produce fewer numbers of pups at birth and when weaned.

Strains requiring high fat diets for optimum reproductive performance should receive 5V03. However, strains that do not require high fat diets should be fed Advanced Protocol® PicoLab® Verified Rodent 50 IF Diet - 5V02 when involved in protocols measuring estrogen-sensitive parameters.

An estrogen-sensitive parameter in the growing, ovariectomized mouse is the uterus. A smaller uterus indicates less estrogenic activity in the diet. As a percent of total body weight, mice receiving a diet with less than 50 ppm total isoflavones produced a uterus that was 15% smaller than those receiving a diet with approximately 400 ppm total isoflavones.



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GUARANTEED ANALYSIS

Crude protein not less than .								20.0%
Crude fat not less than								.9.0%
Crude fiber not more than								.5.0%

INGREDIENTS

Ground wheat, ground corn, corn gluten meal, ground oats, wheat middlings, soybean oil, casein, dicalcium phosphate, monocalcium phosphate, calcium carbonate, brewers dried yeast, salt, L-lysine, menadione dimethylpyrimidinol bisulfite, DL-methionine, choline chloride, magnesium oxide, pyridoxine hydrochloride, chromium potassium sulfate, tocopherols (a preservative), cholecalciferol, vitamin A acetate, thiamin mononitrate, biotin, dl-alpha tocopheryl acetate, calcium pantothenate, folic acid, vitamin B₁₂ supplement, L-tryptophan, riboflavin, nicotinic acid, manganese oxide, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate, sodium selenite.

FEEDING DIRECTIONS

Feed ad libitum to mice. 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. Feed should be available on a free choice basis in wire feeders above the floor of the cage.

Arginine, %
Cystine, %
Glycine, %
Histidine, %
Isoleucine, %
Leucine, %
Lysine, %
Methionine, %
Phenylalanine, %
Tyrosine, %
Threonine, %
Tryptophan, %
Valine, %
Serine, %
Aspartic Acid, %
Glutamic Acid, %5.17
Alanine, %
Proline, %
Taurine, %
14411110,70
Fat (ether extract), %9.0
Fat (ether extract), %9.0
Fat (ether extract), %9.0 Fat (acid hydrolysis), %10.2
Fat (ether extract), % 9.0 Fat (acid hydrolysis), % 10.2 Cholesterol, ppm 0.00
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61
Fat (ether extract), %.9.0Fat (acid hydrolysis), %.10.2Cholesterol, ppm.0.00Linoleic Acid, %.4.88Linolenic Acid, %.0.61Arachidonic Acid, %.0.00Omega-3 Fatty Acids, %.0.61Total Saturated Fatty Acids, %.1.54Total Monounsaturated
Fat (ether extract), %.9.0Fat (acid hydrolysis), %.10.2Cholesterol, ppm.0.00Linoleic Acid, %.4.88Linolenic Acid, %.0.61Arachidonic Acid, %.0.00Omega-3 Fatty Acids, %.0.61Total Saturated Fatty Acids, %.1.54
Fat (ether extract), %.9.0Fat (acid hydrolysis), %.10.2Cholesterol, ppm.0.00Linoleic Acid, %.4.88Linolenic Acid, %.0.61Arachidonic Acid, %.0.00Omega-3 Fatty Acids, %.0.61Total Saturated Fatty Acids, %.1.54Total MonounsaturatedFatty Acids, %.2.07
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61 Total Saturated Fatty Acids, % .1.54 Total Monounsaturated Fatty Acids, % .2.07 Fiber (Crude), % .3.4
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61 Total Saturated Fatty Acids, % .1.54 Total Monounsaturated Fatty Acids, % .2.07 Fiber (Crude), % .3.4 Neutral Detergent Fiber³, % .14.1
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61 Total Saturated Fatty Acids, % .1.54 Total Monounsaturated Fatty Acids, % .2.07 Fiber (Crude), % .3.4 Neutral Detergent Fiber³, % .14.1 Acid Detergent Fiber⁴, % .4.6
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61 Total Saturated Fatty Acids, % .1.54 Total Monounsaturated Fatty Acids, % .2.07 Fiber (Crude), % .3.4 Neutral Detergent Fiber³, % .14.1 Acid Detergent Fiber⁴, % .4.6 Nitrogen-Free Extract
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61 Total Saturated Fatty Acids, % .1.54 Total Monounsaturated Fatty Acids, % .2.07 Fiber (Crude), % .3.4 Neutral Detergent Fiber³, % .14.1 Acid Detergent Fiber¹, % .4.6 Nitrogen-Free Extract (by difference), % .50.6 Starch, % .37.0 Glucose, % .0.16
Fat (ether extract), % .9.0 Fat (acid hydrolysis), % .10.2 Cholesterol, ppm .0.00 Linoleic Acid, % .4.88 Linolenic Acid, % .0.61 Arachidonic Acid, % .0.00 Omega-3 Fatty Acids, % .0.61 Total Saturated Fatty Acids, % .1.54 Total Monounsaturated Fatty Acids, % .2.07 Fiber (Crude), % .3.4 Neutral Detergent Fiber³, % .14.1 Acid Detergent Fiber³, % .4.6 Nitrogen-Free Extract (by difference), % .50.6 Starch, % .37.0

CHEMICAL COMPOSITION 1

Nutrients²

Gross Energy, kcal/gm4.54 Physiological Fuel Value⁵, Metabolizable Energy, Minerals Calcium, % 0.99 Phosphorus, % 0.80

Phosphorus (non-phytate), % . .0.58

Total Digestible Nutrients, % .82.3

Sulfur, %								.0.
Sodium, %								.0.

Sodium, %
Chlorine, %
Fluorine, ppm
Iron, ppm
Zinc, ppm
Manganese, ppm13
Copper, ppm
Cobalt, ppm
Iodine, ppm1.
Chromium, ppm
Selenium, ppm
Vitamins
Carotene, ppm
Vitamin K (as menadione),ppm .7.
Thiamin Hydrochloride, ppm 20
Riboflavin, ppm 8.
Niacin, ppm90
Pantothenic Acid, ppm
Choline Chloride, ppm 2300
Folic Acid, ppm
Pyridoxine, ppm1
Biotin, ppm
B_{12} , mcg/kg
Vitamin A, IU/gm
Vitamin D ₃ (added), IU/gm 2.0
Vitamin E, IU/kg 93
Ascorbic Acid, mg/gm
Calories provided by:
Protein, %
Fat (ether extract) % 22.10c

Protein, %	.22.925
Fat (ether extract), %	.22.106
Carbohydrates, %	.54.970

*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 decimalfractions of protein, fat and carbohydrate (use Nitrogen Free Extract) x 4,9,4 kcal/gm respectively.

