Advanced Protocol®

Verified Casein Diet 10 IF 5K96*

DESCRIPTION

Advanced Protocol® Verified Casein Diet 10 IF is a natural ingredient diet, formulated to be used in experimental protocols where dietary estrogenic activity is a concern. Recommended for rats, mice and hamsters, it meets the nutrient specifications as shown for NIH-31 in the 1996 update. NIH-31 is usually autoclaved, however 5K96 had some adjustments made to the vitamin content in order to compensate for the different levels in vitamin destruction when comparing irradiation and autoclaving.

Features and Benefits

- 5K96 consistently analyzes at less than 10.0 ppm total isoflavones (aglycone equivalents of genistein, daidzein and glycitein), while other natural ingredient laboratory rodent diets contain higher levels.
- Complete life-cycle diet designed to be fed free-choice.
- Available in irradiated or non-irradiated.

Product Forms Available	*Catalog #*
• Round pellets, 1 1/2" round x 3/4" long	55909
• Meal (ground pellets)	1810461

GUARANTEED ANALYSIS

Crude protein not less than	19.0%
Crude fat not less than	4.0%
Crude fiber not more than	5.0%

INGREDIENTS

Ground wheat, ground corn, wheat middlings, ground oats, fish meal, casein, corn gluten meal, dicalcium phosphate, monocalcium phosphate, soybean oil, brewers dried yeast, calcium carbonate, salt, choline chloride, magnesium oxide, chromium potassium sulfate, dl-alpha tocopheryl acetate (vitamin E), manganese oxide, nicotinic acid, vitamin A acetate, calcium pantothenate, thiamin mononitrate, menadione sodium bisulfite (vitamin K), pyridoxine hydrochloride, riboflavin, cholecalciferol (vitamin D_3), cyanocobalamin (vitamin B_{12}), folic acid, biotin, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate.

FEEDING DIRECTIONS

Feed ad libitum to rodents. Plenty of fresh, clean water should be available at all times.

Verified lots have password protected isoflavone levels posted at www.labdiet.com. Contact info@labdiet.com for further information.

CHEMICAL COMPOSITION[1]

Nutrients[2]	
Protein, %	**19.0**
Arginine, %	0.93
Cystine, %	0.23
Glycine, %	0.82
Histidine, %	0.45
Isoleucine, %	0.91
Leucine, %	1.70
Lysine, %	0.99
Methionine, %	0.45
Phenylalanine, %	0.90
Tyrosine, %	0.60
Threonine, %	0.71
Tryptophan, %	0.22
Valine, %	1.04
Serine, %	0.94
Aspartic Acid, %	1.60
Glutamic Acid, %	4.61
Alanine, %	1.14
Proline, %	1.71
Taurine, %	0.03
Fat (ether extract), %	**4.3**
Fat (acid hydrolysis), %	**5.3**
Cholesterol, ppm	243
Linoleic Acid, %	2.00
Linolenic Acid, %	0.17
Arachidonic Acid, %	0.01
Omega-3 Fatty Acids, %	0.26
Total Saturated Fatty Acids, %	0.99
Total Monounsaturated Fatty Acids, %	1.09
Fiber (Crude), %	**3.5**
Neutral Detergent Fiber[3], %	14.3
Acid Detergent Fiber[4], %	4.7
Nitrogen-Free Extract (by difference), %	**57.3**
Starch, %	44.0
Glucose, %	0.15
Fructose, %	0.15
Sucrose, %	0.36
Lactose, %	0.00
Total Digestible Nutrients, %	**75.8**
Gross Energy, kcal/gm	**4.06**
Physiological Fuel Value[5], kcal/gm	**3.44**
Metabolizable Energy, kcal/gm	**3.15**

Minerals	
Ash, %	**5.7**
Calcium, %	1.15
Phosphorus, %	0.89
Phosphorus (non-phytate), %	0.68
Potassium, %	0.43
Magnesium, %	0.19
Sulfur, %	0.17
Sodium, %	0.28
Chlorine, %	0.47
Fluorine, ppm	14
Iron, ppm	170
Zinc, ppm	86
Manganese, ppm	130
Copper, ppm	10
Cobalt, ppm	0.31
Iodine, ppm	0.88
Chromium, ppm	0.78
Selenium, ppm	0.29

Vitamins	
Carotene, ppm	1.8
Vitamin K (as menadione),ppm	7.1
Thiamin Hydrochloride, ppm	24
Riboflavin, ppm	8.6
Niacin, ppm	91
Pantothenic Acid, ppm	29
Choline Chloride, ppm	1800
Folic Acid, ppm	2.7
Pyridoxine, ppm	11
Biotin, ppm	0.3
B_{12}, mcg/kg	43
Vitamin A, IU/gm	25
Vitamin D_3 (added), IU/gm	2.0
Vitamin E, IU/kg	95
Ascorbic Acid, mg/gm	—

Calories provided by:	
Protein, %	22.092
Fat (ether extract), %	11.339
Carbohydrates, %	66.569

*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.

For ordering information, contact TestDiet® at 765-966-1885.