Verified Casein Diet 10 IF   5K96*

DESCRIPTION

Verified Casein Diet 10 IF is formulated for mice and rats used in experimental protocols where dietary isoflavone levels need to be assured and verified for estrogen-sensitive protocols. This diet 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. This diet is a complete life cycle diet formulated using managed formulation, delivering Constant Nutrition®. This is paired with the selection of highest quality ingredients to assure minimal inherent biological variation in long-term studies.

Features and Benefits

- Managed Formulation delivers Constant Nutrition®
- Verified to contain a targeted level of 10 ppm total isoflavones (genistein, daidzein and glycitein)
- Provides proper nutrition for estrogen-sensitive protocols
- Complete life-cycle diet designed to be fed free-choice.
- Available in irradiated or non-irradiated.
- Contains no soybean meal or alfalfa.

Product Forms Available	Catalog #
• Round pellets, 1/2" round x 3/4" long	55909
• Round pellets, 1/2" round x 3/4" long, Irradiated	1810069

* For additional analytical needs, contact info@LabDiet.com

GUARANTEED ANALYSIS

Crude protein not less than 19.00%
Crude fat not less than 4.00%
Crude fiber not more than 5.00%

INGREDIENTS

Ground wheat, ground corn, wheat middlings, ground oats, fish meal, casein, corn gluten meal, dicalcium phosphate, soybean oil, brewers dried yeast, salt, calcium carbonate, choline chloride, magnesium oxide, chromium potassium sulfate, dl-alpha tocopheryl acetate (vitamin E), manganese oxide, nicotinic acid, vitamin A acetate, calcium pantothenate, thiamine mononitrate, menadione sodium bisulfite (vitamin K), pyridoxine hydrochloride, riboflavin, cholecalciferol, vitamin B12 supplement, 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.

For information regarding shelf life please visit www.labdiet.com.

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, %. **19.1**
Arginine, % 0.90
Cystine, % 0.26
Glycine, % 0.81
Histidine, %. 0.46
Isoleucine, %. 0.86
Leucine, %. 1.64
Lysine, %. 0.98
Methionine, %. 0.44
Phenylalanine, %. 0.88
Tyrosine, % 0.66
Threonine, %. 0.70
Tryptophan, %. 0.22
Valine, % 1.00
Serine, % 0.99
Aspartic Acid, %. 1.63
Glutamic Acid, % 4.81
Alanine, %. 1.14
Proline, % 1.85
Taurine, % 0.05
Fat (ether extract), %. **4.4**
Fat (acid hydrolysis), % **5.5**
Cholesterol, ppm. 243
Linoleic Acid, % 1.96
Linolenic Acid, % 0.21
Arachidonic Acid, %. 0.02
Omega-3 Fatty Acids, %. 0.48
Total Saturated Fatty Acids, % 1.02
Total Monounsaturated
Fatty Acids, % 0.98
Fiber (Crude), %. **3.6**
Neutral Detergent Fiber[3], %. . 14.9
Acid Detergent Fiber[4], % 4.4
Nitrogen-Free Extract
(by difference), % **57.0**
Starch, % 42.3
Sucrose, %. 0.36
Total Digestible Nutrients,% 75.2
Gross Energy, kcal/gm **4.07**
Physiological Fuel Value[5],
kcal/gm **3.44**
Metabolizable Energy,
kcal/gm **3.11**

Minerals

Ash, %. **5.6**
Calcium, %. 1.11
Phosphorus, % 0.93
Phosphorus (non-phytate), %. 0.71
Potassium, %. 0.46
Magnesium, %. 0.20
Sulfur, % 0.21
Sodium, %. 0.29
Chloride, % 0.50

Fluorine, ppm 13
Iron, ppm. 170
Zinc, ppm 81
Manganese, ppm 130
Copper, ppm 9.0
Cobalt, ppm. 0.33
Iodine, ppm 0.88
Chromium (added), ppm 0.33
Selenium, ppm. 0.35

Vitamins

Carotene, ppm. 1.2
Vitamin K, ppm 7.0
Thiamin, ppm 24
Riboflavin, ppm. 8.6
Niacin, ppm. 91
Pantothenic Acid, ppm 30
Choline, ppm. 880
Folic Acid, ppm. 2.7
Pyridoxine, ppm 11
Biotin, ppm 0.40
B_{12}, mcg/kg 42
Vitamin A, IU/gm. 25
Vitamin D_3 (added), IU/gm . . . 2.1
Vitamin E, IU/kg 95
Ascorbic Acid, mg/gm 0.0

Calories provided by:

Protein, % 22.221
Fat (ether extract), %. 11.603
Carbohydrates, % 66.176
*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 carbo- hydrate (use Nitrogen Free Extract) x 4,9,4 kcal/gm respectively.

NOTE: When assayed, actual levels may vary from calculated values.

LabDiet®