Formulab Diet 5008*
Formulab Diet, Irradiated 5008C33*

DESCRIPTION

Formulab Diet is formulated to supply complete life-cycle nutrition for use in breeding colonies of rats and hamsters and many mouse strains. 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. The high energy, high quality protein formulation of this diet maximizes reproduction of rats and hamsters and is an excellent life-cycle diet for most rodents.

Features and Benefits

- Similar nutrient concentration to 5001, with higher energy content
- Maximizes reproductive performance of rats and hamsters; supports gestation and lactation simultaneously
- High quality animal protein added to create a superior balance of amino acids for optimum performance
- Formulated to feed rats, hamsters and many mouse strains
- Single product inventory
- Available in Irradiated or Non-Irradiated form
- ZDF rats were developed using 5008

Product Forms Available

- Oval pellet, 10 mm x 16 mm x 25 mm length (3/8"x5/8"x1")
  - Non-Irradiated available in 15 kg or 50 lb paper sacks
  - Irradiated available in 25 lb paper sacks
- Meal (ground pellets), special order

GUARANTEED ANALYSIS

Crude protein not less than	23.0%
Crude fat not less than	6.5%
Crude fiber not more than	4.0%
Ash not more than	8.0%
Added minerals not more than	2.5%

INGREDIENTS

Ground corn, dehulled soybean meal, ground wheat, fish meal, wheat middlings, porcine animal fat preserved with BHA, cane molasses, brewers dried yeast, porcine meat meal, wheat germ, ground oats, dried beet pulp, dehydrated alfalfa meal, calcium carbonate, dried whey, salt, menadione dimethylpyrimidinol bisulfite, choline chloride, cholecalciferol, vitamin A acetate, pyridoxine hydrochloride, dl-alpha tocopheryl acetate, thiamin mononitrate, folic acid, DL-methionine, nicotinic acid, calcium pantothenate, riboflavin, vitamin B_{12} supplement, manganous oxide, zinc oxide, ferrous carbonate, copper sulfate, zinc sulfate, calcium iodate, cobalt carbonate.

FEEDING DIRECTIONS

Plenty of fresh, clean water should be available to the animals at all times.

Rats- All rats will eat varying amounts of feed depending on their genetic origin. Larger strains will eat between 15-30 grams per day. Smaller strains will eat between 12-15 grams per day. Feeders in rat cages should be designed to hold two to three days supply of feed at one time.

Mice-Adult mice will eat 4 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.

Hamsters-Adults will eat 10 to 14 grams per day.

CHEMICAL COMPOSITION[1]

Nutrients[2]

Protein, %	**23.5**
Arginine, %	1.44
Cystine, %	0.35
Glycine, %	1.23
Histidine, %	0.58
Isoleucine, %	1.20
Leucine, %	1.87
Lysine, %	1.40
Methionine, %	0.43
Phenylalanine, %	1.08
Tyrosine, %	0.66
Threonine, %	0.90
Tryptophan, %	0.28
Valine, %	1.19
Serine, %	1.20
Aspartic Acid, %	2.60
Glutamic Acid, %	4.77
Alanine, %	1.39
Proline, %	1.63
Taurine, %	0.02
Fat (ether extract), %	**6.5**
Fat (acid hydrolysis), %	**7.5**
Cholesterol, ppm	280
Linoleic Acid, %	1.37
Linolenic Acid, %	0.09
Arachidonic Acid, %	0.01
Omega-3 Fatty Acids, %	0.29
Total Saturated Fatty Acids, %	2.51
Total Monounsaturated Fatty Acids, %	2.32
Fiber (Crude), %	**3.8**
Neutral Detergent Fiber[3], %	11.3
Acid Detergent Fiber[4], %	4.0
Nitrogen-Free Extract (by difference), %	**49.4**
Starch, %	34.9
Glucose, %	0.22
Fructose, %	0.24
Sucrose, %	2.57
Lactose, %	0.39
Total Digestible Nutrients,%	**81.2**
Gross Energy, kcal/gm	**4.15**
Physiological Fuel Value[5], kcal/gm	**3.50**
Metabolizable Energy, kcal/gm	**3.31**

Minerals

Ash, %	**6.8**
Calcium, %	1.00
Phosphorus, %	0.65
Phosphorus (non-phytate), %	0.42
Potassium, %	1.10
Magnesium, %	0.20
Sulfur, %	0.24
Sodium, %	0.28
Chlorine, %	0.48
Fluorine, ppm	19
Iron, ppm	230
Zinc, ppm	73
Manganese, ppm	71
Copper, ppm	13
Cobalt, ppm	0.4
Iodine, ppm	0.8
Chromium, ppm	1.4
Selenium, ppm	0.23

Vitamins

Carotene, ppm	4.0
Vitamin K (as menadione),ppm	3.2
Thiamin Hydrochloride, ppm	16
Riboflavin, ppm	5.0
Niacin, ppm	109
Pantothenic Acid, ppm	15
Choline Chloride, ppm	2000
Folic Acid, ppm	3.0
Pyridoxine, ppm	6.0
Biotin, ppm	0.20
B_{12}, mcg/kg	20
Vitamin A, IU/gm	15
Vitamin D_3 (added), IU/gm	3.3
Vitamin E, IU/kg	55
Ascorbic Acid, mg/gm	—

Calories provided by:

Protein, %	26.849
Fat (ether extract), %	16.710
Carbohydrates, %	56.441

*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.