

**DESCRIPTION**

Diet Induced Obesity (DIO) Rodent Diet with 45% Energy From Fat, Dyed Red is a Purified Diet based on AIN-76A Semi-Purified Diet, Rat or Mouse 5800-B. See Van Heek et al., J. Clin. Invest. 99:385-390, 1997, for initial use of this formula. Originally manufactured as "D12451".

Storage conditions are particularly critical to TestDiet® products, due to the absence of antioxidants or preservative agents. To provide maximum protection against possible changes during storage, store in a dry, cool location.

Storage under refrigeration (2° C) is recommended. Maximum shelf life is six months. (If long term studies are involved, storing the diet at -20° C or colder may prolong shelf life.) Be certain to keep in air tight containers.

Product Forms Available*	Catalog #
1/2" Pellet	58125
1/2" Pellet, Irradiated	55629
Meal	1810729
Meal, Irradiated	1810730

\*Other Forms Available By Request

**INGREDIENTS**

Casein - Vitamin Tested	23.3060
Lard	20.6840
Sucrose	20.0920
Maltodextrin	11.6530
Dextrin	8.4830
Powdered Cellulose	5.8270
Soybean Oil	2.9130
Potassium Citrate, Tribasic Monohydrate	1.9230
Calcium Phosphate	1.5150
DIO Mineral Mix	1.1650
AIN-76A Vitamin Mix	1.1650
Calcium Carbonate	0.6410
L-Cystine	0.3500
Choline Bitartrate	0.2330
Red Dye	0.0500

**Part of the TestDiet® "Blue-Pink-Yellow" DIO Series ("van Heek" Series)**

DIO Rodent Purified Diet w/60% Energy From Fat - Blue

- 1/2" Pellet - Catalog # 58126 (58Y1)
- 1/2" Pellet, Irradiated - Catalog # 56833 (58Y1)
- Meal - Catalog # 1810473 (58Y1)

DIO Rodent Purified Diet w/10% Energy From Fat - Yellow

- 1/2" Pellet - Catalog # 58124 (58Y2)
- Meal - Catalog # 56834 (58Y2)

**FEEDING DIRECTIONS**

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

**CAUTION:**

**Perishable - store properly upon receipt.**  
**For laboratory animal use only, not for human consumption.**

**NUTRITIONAL PROFILE <sup>1</sup>**

Protein, %	20.8	Minerals	
Arginine, %	0.81	Calcium, %	0.71
Histidine, %	0.60	Phosphorus, %	0.53
Isoleucine, %	1.12	Phosphorus (available), %	0.53
Leucine, %	2.02	Potassium, %	0.70
Lysine, %	1.69	Magnesium, %	0.06
Methionine, %	0.60	Sodium, %	0.14
Cystine, %	0.44	Chlorine, %	0.24
Phenylalanine, %	1.12	Fluorine, ppm	1.1
Tyrosine, %	1.18	Iron, ppm	58
Threonine, %	0.90	Zinc, ppm	41
Tryptophan, %	0.26	Manganese, ppm	68
Valine, %	1.33	Copper, ppm	7.0
Alanine, %	0.64	Cobalt, ppm	0.0
Aspartic Acid, %	1.50	Iodine, ppm	0.24
Glutamic Acid, %	4.76	Chromium, ppm	2.3
Glycine, %	0.45	Molybdenum, ppm	1.90
Proline, %	2.75	Selenium, ppm	0.27
Serine, %	1.29		
Taurine, %	0.00		

Fat, %	23.6	Vitamins	
Cholesterol, ppm	196	Vitamin A, IU/g	4.7
Linoleic Acid, %	3.48	Vitamin D-3 (added), IU/g	1.2
Linolenic Acid, %	0.32	Vitamin E, IU/kg	60.6
Arachidonic Acid, %	0.04	Vitamin K (as menadione), ppm	0.59
Omega-3 Fatty Acids, %	0.32	Thiamin Hydrochloride, ppm	7.1
Total Saturated Fatty Acids, %	9.05	Riboflavin, ppm	7.8
Total Monounsaturated Fatty Acids, %	9.32	Niacin, ppm	35
		Pantothenic Acid, ppm	19
		Folic Acid, ppm	2.5
		Pyridoxine, ppm	6.8
		Biotin, ppm	0.2
		Vitamin B-12, mcg/kg	16
		Choline Chloride, ppm	1,165
		Ascorbic Acid, ppm	0.0

**Fiber (max), % 5.8**

**Carbohydrates, % 41.2**

**Energy (kcal/g) <sup>2</sup> 4.60**

From:	kcal	%
Protein	0.833	18.1
Fat (ether extract)	2.124	46.1
Carbohydrates	1.648	35.8

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. Nutrients expressed as percent of ration on an As Fed basis except where otherwise indicated.  
2. Energy (kcal/gm) - Sum of decimal fractions of protein, fat and carbohydrate x 4,9,4 kcal/gm respectively.