

Teklad Global 16% Protein Rodent Diet (Sterilizable)

Product Description- 2016S is a fixed formula, autoclavable diet manufactured with high quality ingredients and designed to support growth and maintenance. 2016S does not contain alfalfa or soybean meal, thus minimizing the occurrence of natural phytoestrogens. Typical isoflavone concentrations (daidzein + genistein aglycone equivalents) range from nondetectable to 20 mg/kg. Exclusion of alfalfa reduces chlorophyll, improving optical imaging clarity. Absence of animal protein and fish meal minimizes the presence of nitrosamines. 2016S is supplemented with additional vitamins to ensure nutritional adequacy after autoclaving.

Macronutrients Crude Protein % 16.4 Fat (ether extract) % 4.0 Carbohydrate (available) 48.5 % Crude Fiber % 3.3 Neutral Detergent Fiber % 15.2 % Ash 4.9 Energy Density^d kcal/g (kJ/g) 3.0 (12.6) Calories from Protein % 22 % Calories from Fat 12 Calories from Carbohydrate % 66 Minerals Calcium % 1.0 Phosphorus % 0.7 Non-Phytate Phosphorus % 0.4 % 0.2 Sodium Potassium % 0.6 Chloride % 0.4 Magnesium % 0.2 Zinc 70 mg/kg Manganese 100 ma/ka Copper mg/kg 15 lodine 6 mg/kg 200 Iron mg/kg Selenium mg/kg 0.23 **Amino Acids** Aspartic Acid % 1.0 Glutamic Acid % 3.3 % Alanine 0.9 % Glycine 0.7 Threonine % 0.6 Proline % 1.5 % Serine 0.8 % 1.9 Leucine % 0.7 Isoleucine % 0.8 Valine Phenylalanine % 0.9 % 0.5 Tyrosine Methionine % 0.5 Cystine % 0.3 % 0.9 Lysine Histidine % 0.4 Arginine % 0.8 Tryptophan % 0.2

| Vitamins | | |
|--|-------|------|
| Vitamin A ^{e, f} | IU/g | 30.0 |
| Vitamin D ₃ ^{e, g} | IU/g | 2.0 |
| Vitamin E | IU/kg | 135 |
| Vitamin K ₃ (menadione) | mg/kg | 100 |
| Vitamin B ₁ (thiamin) | mg/kg | 117 |
| Vitamin B ₂ (riboflavin) | mg/kg | 27 |
| Niacin (nicotinic acid) | mg/kg | 120 |
| Vitamin B ₆ (pyridoxine) | mg/kg | 26 |
| Pantothenic Acid | mg/kg | 140 |
| Vitamin B ₁₂ (cyanocobalamin) | mg/kg | 0.15 |
| Biotin | mg/kg | 0.90 |
| Folate | mg/kg | 9 |
| Choline | mg/kg | 1030 |
| Fatty Acids | | |
| C16:0 Palmitic | % | 0.5 |
| C18:0 Stearic | % | 0.1 |
| C18:1ω9 Oleic | % | 0.7 |
| C18:2ω6 Linoleic | % | 2.0 |
| C18:3ω3 Linolenic | % | 0.1 |
| Total Saturated | % | 0.6 |
| Total Monounsaturated | % | 0.7 |
| Total Polyunsaturated | % | 2.1 |
| Other | | |
| Cholesterol | mg/kg | |
| | пуку | |

Ingredients (in descending order of inclusion)- Ground wheat, ground corn,

wheat middlings, corn gluten meal, calcium carbonate, dicalcium phosphate,

choline chloride, menadione sodium bisulfite complex (source of vitamin K

activity), magnesium oxide, vitamin E acetate, calcium pantothenate, thiamin

mononitrate, manganous oxide, niacin, ferrous sulfate, zinc oxide, riboflavin,

supplement, folic acid, calcium iodate, biotin, vitamin D₃ supplement, cobalt

Standard Product Form: Pellet

soybean oil, brewers dried yeast, L-lysine, iodized salt, DL-methionine,

vitamin A acetate, pyridoxine hydrochloride, copper sulfate, vitamin B₁₂

carbonate

1/14

^a Ether extract is used to measure fat in pelleted diets, while an acid hydrolysis method is required to recover fat in extruded diets. Compared to ether extract, the fat value for acid hydrolysis will be approximately 1% point higher.

^b Carbohydrate (available) is calculated by subtracting neutral detergent fiber from total carbohydrates.

^c Neutral detergent fiber is an estimate of insoluble fiber, including cellulose, hemicellulose, and lignin. Crude fiber methodology underestimates total fiber.

^d Energy density is a calculated estimate of *metabolizable energy* based on the Atwater factors assigning 4 kcal/g to protein, 9 kcal/g to fat, and 4 kcal/g to available carbohydrate.

^e Indicates added amount but does not account for contribution from other ingredients.

^f 1 IU vitamin A = 0.3 µg retinol

^g 1 IU vitamin D = 25 ng cholecalciferol

For nutrients not listed, insufficient data is available to quantify.

Nutrient data represent the best information available, calculated from published values and direct analytical testing of raw materials and finished product. Nutrient values may vary due to the natural variations in the ingredients, analysis, and effects of processing.

Teklad Diets are designed and manufactured for research purposes only.

© 2015 Envigo