7060

Teklad Ruminant Diet

Product Description- 7060 is a fixed formula, non-autoclavable diet manufactured with high quality ingredients. It is designed as a complete pelleted diet to be fed to laboratory ruminants. This product should be fed in daily quantities sufficient to maintain optimal body condition. Fresh water must be available at all times.

Ingredients (in descending order of inclusion)- Dehydrated alfalfa meal, soybean hulls, ground corn, wheat middlings, cane molasses, dehulled soybean meal, salt, dicalcium phosphate, menadione sodium bisulfite complex (source of vitamin K activity), zinc oxide, magnesium oxide, calcium carbonate, iron carbonate, vitamin E acetate, vitamin B_{12} supplement, kaolin, calcium pantothenate, niacin, riboflavin, thiamin mononitrate, vitamin A acetate, cobalt carbonate, biotin, pyridoxine hydrochloride, vitamin D_3 supplement, potassium iodide, folic acid, sodium selenite.

Standard Product Form: ***Pellet***

Macronutrients		
Crude Protein	%	13.8
Fat (ether extract) [a]	%	2.1
Carbohydrate (available) [b]	%	23.8
Crude Fiber	%	22.0
Neutral Detergent Fiber [c]	%	40.0
Ash	%	9.3
Energy Density [d]	kcal/g (kJ/g)	2.1 (8.8)
Calories from Protein	%	33
Calories from Fat	%	11
Calories from Carbohydrate	%	56
Minerals		
Calcium	%	1.0
Phosphorus	%	0.5
Non-Phytate Phosphorus	%	0.3
Sodium	%	0.5
Potassium	%	1.5
Chloride	%	0.9
Magnesium	%	0.2
Zinc	mg/kg	227
Manganese	mg/kg	32
Copper	mg/kg	11
Iodine	mg/kg	2
Iron	mg/kg	400
Selenium	mg/kg	0.22
Amino Acids		
Aspartic Acid	%	1.2
Glutamic Acid	%	1.3
Alanine	%	0.7
Glycine	%	0.9
Threonine	%	0.9
Proline	%	0.7
Serine	%	0.6
Leucine	%	1.2
Isoleucine	%	0.7
Valine	%	0.7
Phenylalanine	%	0.7
Tyrosine	%	0.5
Methionine	%	0.2
Cystine	%	0.2
Lysine	%	0.7
Histidine	%	0.3
Arginine	%	0.8
Tryptophan	%	0.2

Vitamins		
Vitamin A [e, f]	IU/g	10.0
Vitamin D_3 [e, g]	IU/g	1.3
Vitamin E	IU/kg	105
Vitamin K_3 (menadione)	mg/kg	25
Vitamin B_1 (thiamin)	mg/kg	18
Vitamin B_2 (riboflavin)	mg/kg	9
Niacin (nicotinic acid)	mg/kg	48
Vitamin B_6 (pyridoxine)	mg/kg	10
Pantothenic Acid	mg/kg	21
Vitamin B_{12} (cyanocobalamin)	mg/kg	0.05
Biotin	mg/kg	0.27
Folate	mg/kg	2
Choline	mg/kg	880
Fatty Acids		
C16:0 Palmitic	%	0.3
C18:0 Stearic	%	0.1
C18:1ω9 Oleic	%	0.2
C18:2ω6 Linoleic	%	1.0
C18:3ω3 Linolenic	%	0.3
Total Saturated	%	0.4
Total Monounsaturated	%	0.3
Total Polyunsaturated	%	1.3
Other		
Cholesterol	mg/kg	--

[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 published predictive equations for sheep (NRC, *Nutrient Requirements of Sheep.* The National Academies Press, 1985).

[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.