

Product Description- 2020X is a fixed formula, non-autoclavable extruded diet manufactured with high quality ingredients and designed to support gestation, lactation, and growth of rodents. 2020X excludes alfalfa and soybean meal, limiting chlorophyll improving optical imaging and minimizing phytoestrogens. Typical isoflavone concentrations (daidzein + genistein aglycone equivalents) range from non-detectable to 20 mg/kg. Absence of fish meal minimizes the presence of nitrosamines. **Related codes 2920X (irradiated), 2020SX (autoclavable).**

Macronutrients		
Crude Protein	%	19.4
Fat (acid hydrolysis) ^a	%	6.5
Carbohydrate (available) ^b	%	47.0
Crude Fiber	%	2.7
Neutral Detergent Fiber ^c	%	12.3
Ash	%	5.1
Energy Density ^d	kcal/g (kJ/g)	3.1 (13.0)
Calories from Protein	%	24
Calories from Fat	%	16
Calories from Carbohydrate	%	60
Minerals		
Calcium	%	0.9
Phosphorus	%	0.7
Non-Phytate Phosphorus	%	0.4
Sodium	%	0.1
Potassium	%	0.4
Chloride	%	0.4
Magnesium	%	0.2
Zinc	mg/kg	60
Manganese	mg/kg	80
Copper	mg/kg	15
Iodine	mg/kg	6
Iron	mg/kg	200
Selenium	mg/kg	0.23
Amino Acids		
Aspartic Acid	%	1.1
Glutamic Acid	%	3.5
Alanine	%	1.2
Glycine	%	0.7
Threonine	%	0.6
Proline	%	1.9
Serine	%	0.9
Leucine	%	2.3
Isoleucine	%	0.7
Valine	%	0.9
Phenylalanine	%	1.0
Tyrosine	%	0.5
Methionine	%	0.5
Cystine	%	0.3
Lysine	%	0.9
Histidine	%	0.4
Arginine	%	0.8
Tryptophan	%	0.2

Ingredients (in descending order of inclusion)- Ground wheat, ground corn, corn gluten meal, wheat middlings, soybean oil, calcium carbonate, dicalcium phosphate, brewers dried yeast, L-lysine, iodized salt, DL-methionine, magnesium oxide, choline chloride, calcium propionate, L-tryptophan, menadione sodium bisulfite complex (source of vitamin K activity), vitamin E acetate, calcium pantothenate, thiamin mononitrate, manganous oxide, niacin, ferrous sulfate, zinc oxide, riboflavin, vitamin A acetate, pyridoxine hydrochloride, copper sulfate, vitamin B12 supplement, folic acid, calcium iodate, biotin, vitamin D3 supplement, cobalt carbonate.

Standard Product Form: Extruded

Vitamins		
Vitamin A ^{e, f}	IU/g	15.0
Vitamin D ₃ ^{e, g}	IU/g	1.5
Vitamin E	IU/kg	110
Vitamin K ₃ (menadione)	mg/kg	50
Vitamin B ₁ (thiamin)	mg/kg	17
Vitamin B ₂ (riboflavin)	mg/kg	15
Niacin (nicotinic acid)	mg/kg	75
Vitamin B ₆ (pyridoxine)	mg/kg	18
Pantothenic Acid	mg/kg	33
Vitamin B ₁₂ (cyanocobalamin)	mg/kg	0.08
Biotin	mg/kg	0.40
Folate	mg/kg	4
Choline	mg/kg	1200
Fatty Acids		
C16:0 Palmitic	%	0.6
C18:0 Stearic	%	0.1
C18:1ω9 Oleic	%	1.1
C18:2ω6 Linoleic	%	2.6
C18:3ω3 Linolenic	%	0.3
Total Saturated	%	0.8
Total Monounsaturated	%	1.1
Total Polyunsaturated	%	2.9
Other		
Cholesterol	mg/kg	--

Shelf life: With proper storage, diet is suitable for use out to 9 months.

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^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.