## **Teklad Global 21% Protein Dog Diet**

**Product Description**- 2021 is a fixed formula, non-autoclavable diet manufactured with high quality ingredients, including poultry by-product meal, an improved source of animal protein over conventional meat and bone meals. The diet is designed for maintenance of adult dogs. The lower fat content helps maintain a leaner, more healthy body weight. **Related code 2021C (certified).** 

Crude Protein	Macronutrients		
Fat (acid hydrolysis) a         %         6.7           Carbohydrate (available) b         %         40.8           Crude Fiber         %         4.0           Neutral Detergent Fiber c         %         13.7           Ash         %         7.0           Energy Density d         kcal/g (kl/g)         3.2 (13.4)           Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Winerals           Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.7           Chloride         %         0.6           Magnesium         %         0.7           Chloride         %         0.6           Manganese         mg/kg         175           Manganese         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         0.28           Amino Acids           Aspartic Acid         %         1.8		0/	21.0
Carbohydrate (available) b         40.8           Crude Fiber         %         4.0           Neutral Detergent Fiber c         %         13.7           Ash         %         7.0           Energy Density d         kcal/g (kl/g)         3.2 (13.4)           Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Minerals           Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.7           Sodium         %         0.7           Sodium         %         0.7           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         15           Lodine         mg/kg         15           Lodine         mg/kg         2           Iron         mg/kg         3.0           Selenium         mg/kg         0.28			
Crude Fiber         %         4.0           Neutral Detergent Fiber c         %         13.7           Ash         %         7.0           Energy Density d         kcal/g (kl/g)         3.2 (13.4)           Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Winerals           Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.4           Potassium         %         0.5           Magnesium         %         0.5           Magnesium         %         0.2           Chloride         %         0.5           Magnesium         %         0.2           Zinc         mg/kg         15           Opper         mg/kg         15           Lodine         mg/kg         2           Iron         mg/kg         3.00           Selenium         mg/kg         0.28			
Neutral Detergent Fiber c         %         13.7           Ash         %         7.0           Energy Density d         kcal/g (kl/g)         3.2 (13.4)           Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Winerals           Calcium         %         1.3           Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.4           Potassium         %         0.6           Magnesium         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         15           Iodine         mg/kg         15           Iodine         mg/kg         30           Selenium         mg/kg         30           Selenium         mg/kg         0.28           Amino Acids           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alani			
Ash         %         7.0           Energy Density d         kcal/g (kl/g)         3.2 (13.4)           Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Minerals           Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.4           Potassium         %         0.5           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         1.8           Glutamic Acid         %         1.5           Alanine         %         1.6           Glycine <td></td> <td></td> <td></td>			
Energy Density d         kcal/g (kl/g)         3.2 (13.4)           Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Winerals           Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.7           Chloride         %         0.5           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         15           Copper         mg/kg         15           Iodine         mg/kg         300           Selenium         mg/kg         30           Selenium         mg/kg         0.28           Amino Acids         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline			
Calories from Protein         %         28           Calories from Fat         %         18           Calories from Carbohydrate         %         54           Winerals         Section         %         1.3           Phosphorus         %         1.1         Non-Phystate Phosphorus         %         0.7           Sodium         %         0.4         Potassium         %         0.7           Chloride         %         0.6         Magnesium         %         0.2           Zinc         mg/kg         1.7         Manganese         mg/kg         1.5           Copper         mg/kg         1.5         Lodine         mg/kg         2           Iron         mg/kg         300         Selenium         mg/kg         300           Selenium         mg/kg         3.2         Amino Acids         1.8         Glutamic Acid         %         1.8         Glutamic Acid         %         1.8         Glutamic Acid         %         1.5         Ais         <		**	
Calories from Fat         %         18           Calories from Carbohydrate         %         54           Minerals         Section         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.5           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         1.8         300           Selenium         mg/kg         0.28           Amino Acids         1.8         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         0.1           Serine         %         1.7 <td></td> <td></td> <td></td>			
Calories from Carbohydrate         %         54           Minerals         Section         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.5           Magnesium         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         3.5           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.7           Isole	i—————————————————————————————————————	* *	
Minerals           Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.5           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         1.8           Glutamic Acid         %         1.8           Glutamic Acid         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyr			
Calcium         %         1.3           Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.5           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline		<u> </u>	54
Phosphorus         %         1.1           Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.5           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         %         1.8           Glutamic Acid         %         1.8           Glutamic Acid         %         1.6           Threonine         %         1.6           Seri			
Non-Phytate Phosphorus         %         0.7           Sodium         %         0.4           Potassium         %         0.5           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         300           Selenium         mg/kg         300           Selenium         mg/kg         300           Aspartic Acid         %         1.8           Glutamic Acid         %         1.8           Glutamic Acid         %         1.6           Threonine         %         1.6           Threonine         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine			
Sodium         %         0.4           Potassium         %         0.7           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           lodine         mg/kg         300           Selenium         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         3.5           Alanine         %         1.8           Glutamic Acid         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.6           Serine         %         1.6           Serine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.3           Lysine         %         0.6 <tr< td=""><td></td><td></td><td></td></tr<>			
Potassium         %         0.7           Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         3.0           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.3           Lysine         %         0.6           Arginine         %         0.6 <td></td> <td></td> <td></td>			
Chloride         %         0.6           Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           lodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         3.5           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.3           Lysine         %         0.3           Lysine         %         0.6           Arginine         %         0.6 <td></td> <td></td> <td>-</td>			-
Magnesium         %         0.2           Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           lodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6			-
Zinc         mg/kg         175           Manganese         mg/kg         75           Copper         mg/kg         15           lodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids            Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6			-
Manganese         mg/kg         75           Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6			-
Copper         mg/kg         15           Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6	Zinc	mg/kg	-
Iodine         mg/kg         2           Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids         Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6			
Iron         mg/kg         300           Selenium         mg/kg         0.28           Amino Acids             Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.6           Serine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6		mg/kg	15
Selenium         mg/kg         0.28           Amino Acids            Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6	Iodine		
Amino Acids           Aspartic Acid         %         1.8           Glutamic Acid         %         3.5           Alanine         %         1.6           Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.5           Arginine         %         0.6	Iron		
Aspartic Acid       %       1.8         Glutamic Acid       %       3.5         Alanine       %       1.6         Glycine       %       1.6         Threonine       %       0.8         Proline       %       1.6         Serine       %       1.1         Leucine       %       1.7         Isoleucine       %       0.9         Valine       %       0.9         Tyrosine       %       0.7         Methionine       %       0.4         Cystine       %       0.3         Lysine       %       0.3         Histidine       %       0.6         Arginine       %       1.3		mg/kg	0.28
Glutamic Acid       %       3.5         Alanine       %       1.6         Glycine       %       1.6         Threonine       %       0.8         Proline       %       1.6         Serine       %       1.1         Leucine       %       1.7         Isoleucine       %       0.9         Valine       %       1.0         Phenylalanine       %       0.7         Methionine       %       0.7         Methionine       %       0.3         Lysine       %       0.3         Lysine       %       0.6         Arginine       %       0.6	Amino Acids		
Alanine       %       1.6         Glycine       %       1.6         Threonine       %       0.8         Proline       %       1.6         Serine       %       1.1         Leucine       %       1.7         Isoleucine       %       0.9         Valine       %       1.0         Phenylalanine       %       0.9         Tyrosine       %       0.7         Methionine       %       0.4         Cystine       %       0.3         Lysine       %       0.6         Arginine       %       0.6	Aspartic Acid	%	1.8
Glycine         %         1.6           Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.6           Arginine         %         0.6	Glutamic Acid	%	3.5
Threonine         %         0.8           Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         0.5           Arginine         %         0.6	Alanine	%	1.6
Proline         %         1.6           Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Glycine	%	1.6
Serine         %         1.1           Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Threonine	%	0.8
Leucine         %         1.7           Isoleucine         %         0.9           Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Proline	%	1.6
Isoleucine         %         0.9           Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Serine	%	1.1
Valine         %         1.0           Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Leucine	%	1.7
Phenylalanine         %         0.9           Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Isoleucine	%	0.9
Tyrosine         %         0.7           Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Valine	%	1.0
Methionine         %         0.4           Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Phenylalanine	%	0.9
Cystine         %         0.3           Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Tyrosine	%	0.7
Lysine         %         1.2           Histidine         %         0.6           Arginine         %         1.3	Methionine	%	0.4
Histidine         %         0.6           Arginine         %         1.3	Cystine	%	0.3
Arginine         %         1.3	Lysine	%	1.2
	Histidine	%	0.6
Tryptophan % 0.2	Arginine	%	1.3
	Tryptophan	%	0.2



**Ingredients** (in descending order of inclusion)- Ground corn, wheat middlings, poultry by-product meal, ground wheat, dehulled soybean meal, dried beet pulp, dried whey, soybean oil, dicalcium phosphate, iodized salt, choline chloride, calcium propionate, zinc oxide, ferrous sulfate, vitamin E acetate, niacin, manganous oxide, thiamin mononitrate, copper sulfate, calcium pantothenate, vitamin A acetate, menadione sodium bisulfite complex (source of vitamin K activity), riboflavin, pyridoxine hydrochloride, vitamin  $B_{12}$  supplement, vitamin  $D_3$  supplement, folic acid, biotin.

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Vitamins		
Vitamin A <sup>e, f</sup>	IU/g	10.0
Vitamin D <sub>3</sub> <sup>e, g</sup>	IU/g	2.2
Vitamin E	IU/kg	90
Vitamin K <sub>3</sub> (menadione)	mg/kg	2
Vitamin B <sub>1</sub> (thiamin)	mg/kg	25
Vitamin B <sub>2</sub> (riboflavin)	mg/kg	8
Niacin (nicotinic acid)	mg/kg	72
Vitamin B <sub>6</sub> (pyridoxine)	mg/kg	8
Pantothenic Acid	mg/kg	20
Vitamin B <sub>12</sub> (cyanocobalamin)	mg/kg	0.08
Biotin	mg/kg	0.17
Folate	mg/kg	2
Choline	mg/kg	2200
Fatty Acids		
C16:0 Palmitic	%	0.9
C18:0 Stearic	%	0.2
C18:1ω9 Oleic	%	1.7
C18:2ω6 Linoleic	%	2.4
C18:3ω3 Linolenic	%	0.2
Total Saturated	%	1.2
Total Monounsaturated	%	1.8
Total Polyunsaturated	%	2.6
Other		
Cholesterol	mg/kg	285

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

## www.inotivco.com/shelf-life-of-diets-used-in-research

- <sup>a</sup> 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.
- <sup>b</sup> Carbohydrate (available) is calculated by subtracting neutral detergent fiber from total carbohydrates.
- <sup>c</sup> Neutral detergent fiber is an estimate of insoluble fiber, including cellulose, hemicellulose, and lignin. Crude fiber methodology underestimates total fiber.
- <sup>d</sup> Energy density is a calculated estimate of metabolizable energy based on published predictive equations for dogs (NRC, *Nutrient Requirements of Dogs and Cats.* The National Academies Press, 2006).
- $^{\rm e}$  Indicates added amount but does not account for contribution from other ingredients.
- <sup>f</sup> 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.

