

## **NIH SPECIFICATION**

### **Dry Diet for Dogs**

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#### **REQUIREMENTS**

Material – Material shall be as specified herein:

Ingredients - The ingredients used in the formulation of the product covered by this specification must be selected from the following list. However, there is no intent to require the manufacturer to use all ingredients listed.

- meat and bone meal (32% maximum ash)
- fish meal
- animal fat
- soybean oil
- dried beet pulp
- dried whey or milk products
- soybean meal
- ground soy grits
- cheese meal
- wheat germ meal
- wheat middlings
- kibbled corn
- kibbled wheat
- ground corn (yellow)
- ground wheat
- corn gluten meal
- dried bakery products
- brewers dried yeast
- D activated animal sterol
- Vitamin A palmitate or acetate
- Vitamin K supplement
- Vitamin B<sub>12</sub> supplement
- niacin
- folic acid
- biotin
- calcium pantothenate
- pyridoxine hydrochloride
- riboflavin
- thiamin
- choline chloride
- vitamin E supplement
- dicalcium phosphate
- calcium carbonate

- iodized salt
- iron carbonate
- iron sulfate
- manganese oxide
- cobalt carbonate
- zinc oxide
- ethylene diamine dihydroiodide
- copper sulfate

Chemical preservatives in various ingredients may consist of:

- BHA
- Propylene glycol
- Propyl gallate
- citric acid

The manufacturer shall determine the amount of each ingredient used in the formulation of this ration that will insure the nutrient content specified in the nutrient standards and will be palatable ration for dogs maintained under laboratory conditions where their physical activity is limited.

The ingredients used in this product shall be ground (prior to extruding) so 100 percent of the particles will pass through a U.S. Standard screen No. 12.

### NUTRIENT STANDARDS

The finished product at the time of manufacture shall conform to the following calculated nutrient concentrations:

<b>Nutrient</b>	<b>Minimum (%)</b>	<b>Maximum (%)</b>
Crude protein	24.00	26.00
Crude fat	6.00	9.00
Linoleic or arachidonic acid	1.25	-
Crude fiber	3.50	4.50
Ash	-	10.50
Calcium	1.20	1.80
Phosphorous	1.00	1.40

<b>Amino Acids (% of total diet)</b>	<b>Requirement</b>	<b>Amount</b>
Arginine	Minimum	1.40
Glycine	Minimum	1.70
Lysine	Minimum	1.10
Methionine	Minimum	0.35
Tryptophan	Minimum	0.20
Cystine	Minimum	0.30
Histidine	Minimum	0.48

<b>Amino Acids (% of total diet)</b>	<b>Requirement</b>	<b>Amount</b>
Leucine	Minimum	1.75
Isoleucine	Minimum	1.00
Phenylalanine	Minimum	1.00
Threonine	Minimum	0.80
Valine	Minimum	1.10
Tyrosine	Minimum	0.60

<b>Minerals</b>	<b>Measurement</b>	<b>Requirement</b>	<b>Amount</b>
Potassium	%	Minimum	0.80
Magnesium	%	Minimum	0.20
Sodium	%	Minimum	0.35
Chlorine	%	Minimum	0.15
Iron	PPM	Minimum	200.0
Zinc	PPM	Minimum	120.0
Manganese	PPM	Minimum	85.0
Copper	PPM	Minimum	12.0
Cobalt	PPM	Minimum	0.48
Iodine	PPM	Minimum	1.5
Selenium	PPM	Minimum	0.2

<b>Vitamins</b>	<b>Measurement</b>	<b>Requirement</b>	<b>Amount</b>
Thiamin	PPM	Minimum	9.0
Riboflavin	PPM	Minimum	4.0
Niacin	PPM	Minimum	40.0
Pantothenic Acid	PPM	Minimum	20.0
Choline	PPM	Minimum	1400.0
Folic Acid	PPM	Minimum	0.7
Pyridoxine	PPM	Minimum	6.0
Biotin	PPM	Minimum	0.1
B <sub>12</sub>	Mcg/Kg	Minimum	35.0
Vitamin A	IU/gm	Minimum	15.0 (5.0) <sup>1</sup>
Vitamin D	IU/gm	Minimum	4.0
Alpha-Tocopheral	PPM	Minimum	40.0
Vitamin K	PPM	Minimum	10.0

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<sup>1</sup> True Vitamin A activity by HPLC method.