

January 19, 2021

NIH SPECIFICATION 513GD

DRY FEED FOR NONHUMAN PRIMATES
(21.3% Protein, 9.5% Crude Fiber, 5% Fat)

1. SCOPE

- 1.1 This specification is for a commercially available closed formula extruded high fiber ration for nonhuman primates which is void of any additives that are known to contain antibiotics or estrogen activity.

2. APPLICABLE DOCUMENTS

- 2.1 Specifications and Standards - The following specifications and standards, of the issue in effect on date of invitation-for-bids or request for proposal, form a part of this specification to the extent specified herein.

National Institutes of Health Standards:

NIH STD. 1 - Animal Feed processing and Mill
Sanitation Standard

NIH STD. 5 - For Nutrient and Chemical Contaminant
Analyses of Laboratory Animal Diets

(Copies of NIH Specifications and Standards required by suppliers in connections with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer).

3. REQUIREMENTS

- 3.1 Material - Material shall be as specified herein:

- 3.1.1 Ingredients - The ingredients used in the formulation of the product covered by this specification must be selected from the following list. **A specification sheet including the ingredient composition and expected nutrient concentrations shall be provided to the NIH at the time of solicitation.**

(see ingredients on next page)

Ingredients

Corn (yellow), ground
Dehulled soybean meal
Soybean hulls ground
Oats ground
Corn gluten meal
Wheat, ground
Porcine fat, preserved with BHA
Alfalfa meal, dehydrated
Sucrose
Dicalcium phosphate
Monocalcium phosphate
Whey (dried)
Fish meal
Calcium carbonate
Brewers yeast, dried
Salt
L-ascorbyl-2-polyphosphate
Pyridoxine hydrochloride
Menadione dimethylpyrimidinol bisulfite
Vitamin D₃ Supplement
DL-methionine
Choline chloride
Vitamin A acetate
Folic acid
Calcium pantothenate
Ferrous sulfate
Vitamin E supplement
Vitamin B₁₂ supplement
Biotin
Thiamine mononitrate
Nicotinic acid
Riboflavin
Zinc oxide
Copper sulfate
L- lysine
Manganous oxide
Ferrous carbonate
Zinc sulfate
Calcium iodate
Cobalt carbonate
Sodium selenite

The manufacturer shall determine the amount of each ingredient used in the formulation of this ration that will

ensure the nutrient content specified in Section 3.1.2 and will be a palatable ration for nonhuman primates maintained under laboratory conditions where their physical activity is limited.

3.1.2 Based on the latest ingredient analysis information the finished product at the time of manufacture shall conform to the following calculated standards. Since nutrient composition of natural ingredients varies, analysis will differ accordingly.

Nutrients	Concentration(%)
Crude protein (not less than)	21.30
Crude fat (not less than)	5.00
Linoleic acid	1.50
Crude fiber (not more than)	9.50
Ash (not more than)	5.90

Amino acids (% of total diet)	Concentration(%)
Arginine	1.17
Glycine	0.85
Lysine	1.11
Methionine	.44
Tryptophan	.27
Cystine	.30
Histidine	.53
Leucine	1.97
Isoleucine	1.11
Phenylalanine	1.14
Threonine	.79
Valine	1.17
Tyrosine	.82
Aspartic acid	2.49
Glutamic acid	4.62
Alanine	1.30

<u>Mineral</u>	<u>Concentration</u>
Calcium(%)	.91
Phosphorus(%)	.60
Potassium(%)	.98
Magnesium(%)	.17
Sodium(%)	.22
Chloride(%)	.36
Iron(PPM)	440
Zinc(PPM)	130

Manganese (PPM)	110
Copper (PPM)	21
Cobalt (PPM)	.72
Iodine (PPM)	1.50
Selenium (PPM)	.30

<u>Vitamins</u>	<u>Concentration</u>
Thiamin (PPM)	11.0
Riboflavin (PPM)	8.7
Niacin (PPM)	100.0
Pantothenic Acid (PPM)	59.0
Choline (PPM)	1500.0
Folic Acid (PPM)	10.0
Pyridoxine (PPM)	13.0
Biotin (PPM)	0.27
B-12 (Mcg/Kg)	72.0
Vitamin A (IU/gm)	43.0
Vitamin D (IU/gm)	6.6
Alpha-Tocopherol (PPM)	110.0
Vitamin K (PPM)	3.2
Vitamin C (PPM)	500.0

- 3.1.3 Proximate Analysis - Analysis for nutrient content of both ingredients and the finished product shall be conducted in accordance with the procedures of the Association of Official Agricultural Chemists (most recent issue). All nutrients contents shall be expressed as a percentage by weight on air-dry basis.
- 3.1.4 Ingredients Standards - Ingredients used in the manufacture of this ration will not be contaminated with any more than 3% of foreign materials such as other grains, weed, seeds, chaff, etc. Manufacturers may be required to provide a significant amount of data to show an effective ingredient quality control program is being followed.
- 3.2 Form - The finished product (extruded biscuits) shall be furnished in the form, as specified: Standard biscuits- 16mm x 22mm 44 mm (5/8"x7/8"x13/4")
- 3.3 Nutrient and Chemical contaminant Assays - The product covered by this Specification is subject to nutrient and chemical contaminant analyses assays in accordance with the latest issue of National Institutes of Health Standard No. 5. All assays shall be conducted by an independent laboratory under National Institutes of Health contract.

3.3.1 Processing Restrictions - All milling and warehousing conditions and/or restrictions as specified in the latest issue of National Institutes of Health Standard No. 1 apply to the feed covered by this Specification.

4. QUALITY ASSURANCE PROVISIONS

4.1 The Government reserves the right to perform any of the inspections set forth in Specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

5. PREPARATION FOR DELIVERY

5.1 Packaging - The finished product shall be packaged into commercially acceptable 3 ply laminated paper bags. Bags shall be of a quality that will prevent the bleeding of fat to the outside of the bag under all weather conditions. The bags shall be closed in a manner that will insure the delivery of uncontaminated animal feed at the National Institutes of Health

