

NIH SPECIFICATION

DRY FEED FOR NONHUMAN PRIMATES 511GD
(15% Protein, 6% Crude Fiber, 5% Fat)

1. SCOPE

1.1 This specification is for a commercially available closed formula extruded 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
Wheat middlings
Wheat, ground
Dehulled soybean meal
Porcine fat, preserved with BHA + citric acid
Whey (dried)
Corn gluten meal (feed)
Soybean hulls, ground
Beet pulp, dried
Alfalfa meal, dehydrated
Calcium carbonate
Fish meal
Sucrose
Brewers yeast, dried
Salt
Dicalcium phosphate
L-ascorbyl-2-polyphosphate
DL-methionine
Pyridoxine hydrochloride
Menadione dimethylpyrimidinol bisulfite
L-Lysine
Cholcalciferol
Vitamin A acetate
Choline chloride
Folic acid
Calcium pantothenate
dl-alpha-tocopheryl acetate
Nicotinic acid
Riboflavin supplement
Thiamine mononitrate
Vitamin B₁₂ supplement
Zinc oxide
Manganous oxide
Ferrous carbonate
Copper sulfate
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 insure 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.

Nutrient	Concentration(%)
Crude protein (not less than)	15.60
Crude fat (not less than)	5.00
Linoleic acid	1.47
Crude fiber (not more than)	4.6
Ash (not more than)	5.2

Amino acids (% of total diet)	Concentration(%)
Arginine	0.89
Glycine	0.66
Lysine	0.75
Methionine	0.42
Tryptophan	0.16
Cystine	0.30
Histidine	0.41
Leucine	1.42
Isoleucine	0.63
Phenylalanine	0.73
Threonine	0.57
Valine	0.72
Tyrosine	0.46
Histidine	0.41
Aspartic acid	1.61
Glutamic acid	3.65
Alanine	1.03

Minerals	Concentration
Calcium(%)	.90
Phosphorus(%)	.60
Potassium(%)	.73
Magnesium(%)	.17
Sodium(%)	.25
Chlorine(%)	.37
Iron (PPM)	230.0
Zinc (ppm)	110.0
Manganese (ppm)	94.0
Copper (ppm)	21.0
Cobalt (ppm)	0.55
Iodine (ppm)	1.3
Selenium (ppm)	0.37

Vitamins	Concentration
Thiamin (PPM)	8.1
Riboflavin (ppm)	8.6
Niacin (ppm)	113.0
Pantothenic Acid (ppm)	60.0
Choline (ppm)	1200
Folic Acid (ppm)	7.9
Pyridoxine (ppm)	14.0
Biotin (ppm)	0.1
B-12 (mcg/Kg)	73
Vitamin A (IU/gm)	20.0
Vitamin D (IU/gm)	6.7
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 ingredients 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.