

NIH SPECIFICATION

Open Formula Extruded Nonhuman Primate Diet

INGREDIENTS

Ingredients	Percentage by Weight
Wheat (10% protein)	28.00
Alfalfa meal (17%)	3.00
Ground oat mill by-product	22.50
Soybean meal (49% protein)	8.00
Fish meal (70% protein)	6.00
Brewers dried yeast	2.00
Dried whey product	3.00
Ground whole kernel yellow corn	17.00
Sugar	2.90
Soybean oil	3.60
Salt	.30
Dicalcium phosphate	.50
Calcium carbonate	1.20
Vitamin premix	1.00
Mineral premix	1.00
Total	100.00

MINERAL FORTIFICATION PER TON (2,000 LBS.) OF FINISHED PRODUCT

Mineral	Amount	Source
Cobalt	400.0 mg	Cobalt carbonate
Copper	2.0 g	Copper sulfate
Iron	30.0 g	Iron sulfate
Magnesium	400.0 g	Magnesium oxide
Manganese	14.0 g	Manganous oxide
Potassium	900.0 g	Potassium bicarbonate
Zinc	21.3 g	Zinc oxide
Iodine	1.8 g	Calcium iodate

VITAMIN FORTIFICATION PER TON (2,000 LBS.) OF FINISHED PRODUCT

Vitamin	Amount	Source
A	9,700,000 IU	Vitamin A acetate or palmitate
D ₃	5,400,000 IU	D activated animal sterol
K	8.0 g	Menadione activity
dl Tocopheryl acetate	37.0 g	
Choline	264.0 g	Choline chloride
Folic acid	17.3 g	

Vitamin	Amount	Source
Niacin	52.0 g	
Pantothenic acid	50.0 g	d-Calcium pantothenate
Pyridoxine	8.0 g	Pyridoxine hydrochloride
Riboflavin	4.8 g	Riboflavin supplement
Thiamin	18.0 g	Thiamin monoitrate
B ₁₂ supplement	13,333.0 ug	
Biotin	100.0 mg	d-biotin
D L Methionine	22.7 g	
Vitamin C	2270.0 g	L-ascorbyl-2-polyphosphate

These concentrations of vitamins and minerals shall be added to the ration via two separate (vitamin and mineral) premixes. In the case of mineral fortification, the actual amount of each element required is specified. Therefore, the contractor shall adjust the amount of each compound used in the premix according to its mineral concentration.

NUTRIENT STANDARDS

Micro Analysis - The total calculated concentration of nutrients in the ration from ingredients and from the fortifications at the time of manufacture should be as follows:

Component	Requirement	% Total Calories
Crude protein	Minimum	15.5
Crude fat	Minimum	5.5
Crude fiber	Maximum	6.0
Ash	Maximum	8.0
Linoleic Acid	Minimum	1.3

Amino Acids (% of total diet)	Minimum
Arginine	.85
Lysine	.85
Methionine	0.28
Cystine	0.24
Tryptophan	0.28
Glycine	0.85
Histidine	0.30
Leucine	1.15
Isoleucine	0.75
Phenylalanine	0.68
Threonine	0.58
Valine	0.75

Minerals	Measurement	Requirement	Amount
Calcium	%	Minimum	.98
Phosphorous	%	Minimum	0.54

Minerals	Measurement	Requirement	Amount
Potassium	%	Minimum	0.65
Sodium	%	Minimum	0.20
Magnesium	%	Minimum	0.15
Iron	PPM	Minimum	180.00
Zinc	PPM	Minimum	50.0
Manganese	PPM	Minimum	40.0
Copper	PPM	Minimum	10.0
Cobalt	PPM	Minimum	0.5
Iodine	PPM	Minimum	2.0

Vitamins	Measurement	Requirement	Amount
Vitamin A	IU/g	Minimum	10.0
Vitamin D	IU/g	Minimum	5.0
Alpha-tocopherol	PPM	Minimum	60.0
Thiamin	PPM	Minimum	25.0
Riboflavin	PPM	Minimum	12.0
Niacin	PPM	Minimum	98.0
Pantothenic Acid	PPM	Minimum	68.0
Choline	PPM	Minimum	1050.0
Pyridoxine	PPM	Minimum	9.0
Folic acid	PPM	Minimum	20.0
Biotin	PPM	Minimum	0.4
Vitamin B ₁₂	Mcg/kg	Minimum	50.0
Vitamin K	PPM	Minimum	3.0
Vitamin C	PPM	Minimum	800.0