NIH SPECIFICATION Open Formula Guinea Pig Diet (NIH-34M)

Ingredients

<u>Ingredients</u>	<u>Percentage by weight</u>
Alfalfa Meal (17% protein)	35.00
Soybean Meal (49% protein)	12.00
Ground whole oats	25.25
Ground whole wheat	23.60
Soybean oil	1.50
Dicalcium phosphate	0.50
Calcium carbonate	1.00
Salt	0.75
Premixes	0.40
	100.00

Ingredients shall be ground to pass through a U.S. Standard Screen No. 16 prior to mixing.

Vitamin Fortification Per Ton (2,000 lbs.) of Finished Product

<u>Vitamin</u>	<u>Amount</u>	Source
A	6,000,000 IU	Stabilized Vitamin A Palmitate
D_3	2,000,000 IU	or acetate D- Activated animal
K	4.5 g	sterol Menadione activity
dl Alpha-tocopheryl acetate	20.0 g	activity
Biotin Choline	0.2 g 480.0 g	Choline chloride
Folic Acid Niacin	4.4 g 10.0 g	
Pantothenic Acid	10.0 g	d Calcium panto-
Pyridoxine	4.5 g	thenate Pyridoxine hydro- chloride
Riboflavin supplement Thiamin	3.0 g 4.0 g	Thiamin mono- nitrate
B ₁₂ supplement Vitamin C	10,000 mcg.	
VICAMIII C	900 g ¹	Coated ascorbic acid
Methionine- hydroxyanalogue	454 g	

¹Contractors are authorized to adjust this value so that vitamin C concentration in the diet conforms to the Nutrient Standards of this Specification after the manufacturing process is complete.

Mineral Fortification Per Ton (2,000 lbs.) of Finished Product

<u>Mineral</u>	<u>Amount</u>	<u>Source</u>
Cobalt	1.4 g.	Cobalt carbonate
Copper	6 g.	Copper sulfate
Manganese	36 g.	Manganese oxide
Zinc	18 g.	Zinc oxide
Iodine	1 q.	Calcium iodate

These concentrations of vitamins and minerals shall be added to the ration via two separate (vitamin and mineral) premixes. For the 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 - At the time of manufacturing the total calculated concentration of nutrients in the ration from natural ingredients and from the fortifications shall be as follows:

Crude protein	%	Minimum	17.0
Crude fat	%	Minimum	3.4
Crude fiber	%	Maximum	13.5
Ash	%	Maximum	8.5

Amino	Acids (% of total diet) Arginine Lysine Methionine Cystine Tryptophan Glycine Histidine Leucine Isoleucine Phenylalanine Tyrosine Threonine Valine	Minimum .90 .80 .25 .25 .25 .90 .30 1.30 .90 .85 .55
	valille	.90

Minerals

Calcium	%	Minimum	.90
Phosphorous	%	II .	.40
Potassium	%	11	1.15
Sodium	%	11	.40
Magnesium	%	11	.15
Iron	PPM	11	220.00
Manganese	PPM	11	70.00
Zinc	PPM	11	32.00
Copper	PPM	11	15.00
Cobalt	PPM	II .	1.00
Iodine	PPM	11	1.00

Vitamins

Vitamin A	IU/q	Minimum	15.0(6.0)*
Vitamin D	IU/q	11	2.0
Alpha-tocopherol	PPM	11	70.0
Thiamin	PPM	11	6.0
Riboflavin	PPM	11	6.0
Niacin	PPM	11	40.0
Pantothenic Acid	PPM	11	25.0
Choline	PPM	11	1800.0
Pyridoxine	PPM	11	6.0
Folic	PPM	11	6.0
Biotin	PPM	11	0.4
Vitamin C	PPM	11	840.0
Vitamin B ₁₂	mcg/kg	11	10.0
Vitamin K	PPM	11	4.0

^{*} TRUE VITAMIN A ACTIVITY BY HPLC METHOD