NIH SPECIFICATION

Open Formula Rat and Mouse Diet -9% Fat Autoclavable (NIH-36)

Ingredients

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Percentage by Weight

Fish meal (60% protein) Soybean meal (48.5% protein) Alfalfa meal (17% protein) Corn gluten meal (60% protein) Ground whole soft wheat	9.00 5.00 2.00 3.00 40.65
Ground #2 yellow corn	15.00
Ground whole oats	5.00
Wheat middlings	10.00
Soy oil	6.20
Salt	0.50
Dicalcium phosphate	1.50
Ground limestone	0.50
NIH31 Vitamin Premix	0.25
NIH31 Mineral Premix	0.25
Choline CL-70%	0.15
Yeast-Brewers	1.00
	100.00

All 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>	Amoun	<u>t</u>	Source
A Palmitate or	22,000,000	IU	Vitamin A
Acetate D ₃ animal sterol	3,800,000	IU	D activated
K	20	g.	Menadione activity
dl alpha-tocopheryl Acetate Choline		g. g.	Choline Chloride
Folic Acid Niacin d Pantothenic Acid	40	д. д.	d-Calcium
Riboflavin suppleme Thiamin		g.	Pantothenate Thiamin mono nitrate
B ₁₂ supplement Pyridoxine	40,000 5	mcg. g.	Pyridoxine
Biotin	120	mg.	hydrochloride d-Biotin

Mineral Fortification per ton (2,000 lbs.) of Finished

Product

<u>Mineral</u>	Amount	Source
Cobalt	400 mg.	Cobalt carbonate
Copper	4 g.	Copper sulfate
Iron	60 g.	Iron sulfate
Magnesium	400 g.	Magnesium oxide
Manganese	100 g.	Manganese oxide
Zinc	10 g.	Zinc oxide
Iodine	1500 mg.	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 - The total calculated concentrations of nutrients in the ration from ingredients and from the fortifications at the time of manufacture should be as follows:

Crude protein	00	Minimum	18.0
Crude fat	00	Minimum	9.0
Crude fiber	00	Maximum	5.0
Ash	00	Maximum	8.0

Amino Acids (% of total diet)

	Minimum
Arginine	.90
Lysine	.85
Methionine	.35
Cystine	.25
Tryptophan	.20
Glycine	.95
Histidine	.38
Leucine	1.40
Isoleucine	.95
Phenylalanine	.85
Tyrosine	.60
Threonine	.65
Valine	.90

<u>Minerals</u>

Calcium	00	Minimum	1.15
Phosphorous	00	"	.85
Potassium	00	"	.75
Sodium	00	"	.30
Magnesium	00	"	.15
Iron	PPM	"	345.00
Zinc	PPM	"	40.00
Manganese	PPM	"	140.00
Copper	PPM	"	12.00
Cobalt	PPM	"	0.70
Iodine	PPM	п	1.80

<u>Vitamins</u>

	,			*
Vitamin A	IU/g	Ш	20.0	(10)
Vitamin D	IU/g	11	4.0	
Alpha-tocopherol	PPM	Ш	45.0	
Thiamin	PPM	11	70.0	
Riboflavin	PPM	11	7.0	
Niacin	PPM	11	80.0	
Pantothenic Acid	PPM	н	30.0	
Choline	PPM	н	1900.0	
Pyridoxine	PPM	н	10.0	
Folic Acid	PPM	н	2.0	
Biotin	PPM	н	.2	
Vitamin B_{12}	mcg/kg	н	40.0	
Vitamin K	PPM	н	20.0	
* TRUE VITAMIN A	ACTIVITY BY	HPLC METHOD		