Vitamin Premix Specification Form with Phytase

Last updated December, 2025

Name:_____

Address:_____

_____

Phone:_____

Email:_____

Date needed: _____

Product name: Vitamin Premix with Phytase

_____ _____

Quantity, lb Package size, lb

Use level, lb/ton Nursery diets: 5 lb
Grower diets: 3 lb
Finisher diets: 1.5 to 2.5 lb

Price desired (circle one) $/lb FOB
$/lb Delivered

Nutrient	**Units**	**Guaranteed Potency per lb of premix**	**Sources**
Vitamin A	IU	750,000	Vitamin A acetate (retinyl acetate) supplied by beadlet
Vitamin D	IU	300,000	Vitamin D_3 (cholecalciferol) with at least 50% supplied by a vitamin A/D_3 beadlet
Vitamin E (Pick one source and provide source with quotation)	mg	8,000	dl-α-tocophorol acetate
	mg	4,000	d-α-tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	600	MPB (menadione dimethylpyrimidinol bisulfite), MNB (menadione nicotinamide busulfite), or MSBC (menadione sodium bisulfite complex)
Vitamin B_{12}	mg	6	Cyanocobalamin
Niacin	mg	9,000	Niacinamide, Nicotinic acid
Pantothenic acid	mg	5,000	d-calcium pantothenate
Riboflavin	mg	1,500	Crystalline riboflavin
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	442,000	Allzyme Swine HC (Alltech)
		219,000	Axtra PHY GOLD (iff)
		528,000	Empirical (ADM)
		984,000	Grainzyme (Agrivida)
		290,000	HiPhorius (Novonesis)
		1,132,000	Microtech (Guangdong VTR Bio-Tech)
		303,000	Natuphos E 5,000 G (BASF)
		266,000	OptiPhos Plus (Huevepharma)
		266,000	Quantum Blue G (AB Vista)
		815,000	Smizyme Thermostable (Origination)
		917,000	Sunphase HT (Wuhan Sunhy Biology Co.)
		320,000	SuperPhy (Hanley International)
Antioxidant	ppm	150	Ethoxyquin
Carrier			50:50 mixture of rice hulls and limestone
Oil	%		Mineral or vegetable

The following points must be followed unless approval for changes have been made:

a) Guaranteed to stay free-flowing, lump free, non-dusty and packaged in multi-wall, poly-lined paper bags or totes as specified above.
b) The final moisture level will be less than 10% and 99.5% product will flow through a #14 U.S./Canadian screen.
c) Bulk density will be 32 ± 5 lb per cubic foot. Please notify me if oil level or carrier cause a flow problem.
d) All bags or totes must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.
e) Formulate using the guaranteed analysis from the supplier for the nutrient. We can request label copies of your ingredients and copies of your mixing records to show quantities of ingredients per batch. Permission must be obtained before using other alternative sources for any ingredient.\
f) Phytase specifications are based on an expected release of 0.125% STTD P when premix is included in diets at 1.5 lb/ton using release curves reported in the KSU Phytase Release Calculator.

Trace Mineral Premix Specification Form

Last updated December, 2011

Name:_____

Address:_____

_____

Phone:_____

Email:_____

Date:_____

Date Needed:_____

Product name: Trace Mineral Premix

_____ _____

Quantity, lb Package size, lb

Use level, lb/ton Nursery diets: 3 lb

Grower diets: 3 lb

Finisher diets: 1.5 to 2.5 lb

Price desired (circle one) $/lb FOB

$/lb Delivered

Nutrient	Guaranteed Potency of premix		Sources
	mg/lb	ppm	
Copper	5,000	11,000	Copper sulfate, Copper chloride
Iodine	90	198	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron	33,300	73,413	Ferrous sulfate
Manganese	10,000	22,046	Manganese sulfate, Manganese oxide
Selenium	90	198	Sodium selenite
Zinc	33,300	73,413	Zinc sulfate
Carrier			Calcium carbonate
Oil			Mineral or vegetable

The following points must be followed unless approval for changes have been made:

a) Guaranteed to stay free-flowing, lump free with little dust, and packaged in multi-wall, poly-lined paper bags or totes as specified above.

b) All bags or totes must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.

c) Formulate using the guaranteed analysis from the supplier for the nutrient. We can request label copies of your ingredients and copies of your mixing records to show quantities of ingredients per batch.

d) Trace mineral sources must comply with the AFIA Mineral Handbook as to maximum levels of arsenic, mercury, cadmium, and lead.

e) Permission must be obtained before using other alternative sources for any ingredient.

Sow VTM Specification Form – Page 1 of 2

Last updated December, 2025

Name:_____

Address:_____

_____

Phone:_____

Email:_____

Date Needed:_____

Product name: Sow VTM Premix

_____ _____

Quantity, lb Package size, lb

Use level, lb/ton Sow diets: 10 lb

Price desired (circle one) $/lb FOB

$/lb Delivered

Nutrient	Units	Guaranteed Potency per lb of premix	Sources
Vitamin A	IU	750,000	Vitamin A acetate (retinyl acetate) supplied by beadlet
Vitamin D (See note f)	IU	150,000	Vitamin D_3 (cholecalciferol) with at least 50% supplied by a vitamin A/D_3 beadlet
	mg	4.54	25(OH)D_3
Vitamin E (Pick one source and provide source with quotation)	mg	6,000	dl-α-tocophorol acetate
	mg	3,000	d-α-tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	300	MPB (menadione dimethylpyrimidinol bisulfite), MNB (menadione nicotinamide busulfite), or MSBC (menadione sodium bisulfite complex)
Vitamin B_{12}	mg	3	Cyanocobalamin
Niacin	mg	4,500	Niacinamide, Nicotinic acid
Pantothenic acid	mg	2,500	d-calcium pantothenate
Riboflavin	mg	750	Crystalline riboflavin
Biotin	mg	20	Spray dried biotin
Folic Acid	mg	200	Folic acid
Pyridoxine	mg	90	Pyridoxine HCl
Choline	mg	50,000	Choline Cl
Carnitine	mg	4,500	L-carnitine
Chromium	mg	18	Chromium picolinate
Copper	mg	1,500	Copper sulfate, Copper chloride
Iodine	mg	27	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron	mg	10,000	Ferrous sulfate
Manganese	mg	3,000	Manganese sulfate, Manganese oxide
Selenium	mg	27	Sodium selenite
Zinc	mg	10,000	Zinc sulfate

Continued on next page

Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	132,000	Allzyme Swine HC (Alltech)
		66,000	Axtra PHY GOLD (iff)
		159,000	Empirical (ADM)
		295,000	Grainzyme (Agrivida)
		87,000	HiPhorius (Novonesis)
		340,000	Microtech (Guangdong VTR Bio-Tech)
		91,000	Natuphos E 5,000 G (BASF)
		80,000	OptiPhos Plus (Huevepharma)
		80,000	Quantum Blue G (AB Vista)
		245,000	Smizyme Thermostable (Origination)
		275,000	Sunphase HT (Wuhan Sunhy Biology Co.)
		96,000	SuperPhy (Hanley International)
Antioxidant	ppm	150	Ethoxyquin
Carrier			50:50 mixture of rice hulls and limestone
Oil	%		Mineral or vegetable

The following points must be followed unless approval for changes have been made:

a) Guaranteed to stay free-flowing, lump free, non-dusty and packaged in multi-wall, poly-lined paper bags or totes as specified above.
b) Please notify if oil level or carrier cause a flow problem.
c) All bags or totes must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.
d) Formulate using the guaranteed analysis from the supplier for the nutrient. We can request label copies of your ingredients and copies of your mixing records to show quantities of ingredients per batch. batch.
e) Trace mineral sources must comply with the AFIA Mineral Handbook as to maximum levels of arsenic, mercury, cadmium, and lead.
f) Portion of vitamin D_3 may be replaced with 25(OH)D_3. For example, if desiring 50% of vitamin D coming from 25(OH)D_3, would specify 75,000 IU D_3 and 2.27 mg 25(OH)D_3. Must provide source(s) and level(s) with quotation.
g) Chelated or hydroxy trace minerals can replace a portion or all of the listed inorganic sources listed for improved stability of the vitamins in the premix and for lameness and reproduction. Replacement should be on an equal mg basis. Permission must be obtained before using other alternative sources for any ingredient.