

## Vitamin Premix Specification Form with Phytase

Last updated January, 2023

Name: \_\_\_\_\_

Product name: Vitamin Premix with Phytase

Address: \_\_\_\_\_

Quantity, lb \_\_\_\_\_

Package size, lb \_\_\_\_\_

Phone: \_\_\_\_\_

Use level, lb/ton Nursery diets: 5 lb

Grower diets: 3 lb

Finisher diets: 1.5 to 2.5 lb

Email: \_\_\_\_\_

Price desired (circle one)

\$/lb FOB

Date needed: \_\_\_\_\_

\$/lb Delivered

Nutrient	Units	Guaranteed Potency per lb of premix	Sources
Vitamin A	IU	750,000	Vitamin A acetate (retinyl acetate) supplied by cross-linked beadlet
Vitamin D	IU	300,000	Vitamin D <sub>3</sub> (cholecalciferol) with at least 50% supplied by a vitamin A/D <sub>3</sub> cross-linked beadlet
Vitamin E (Pick one source and provide source with quotation)	mg	8,000	dl- $\alpha$ -tocophorol acetate
	mg	4,000	d- $\alpha$ -tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	600	MPB (Menadione dimethylpyrimidinol bisulfite) or MNB
Vitamin B <sub>12</sub>	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	235,870	Axtra PHY GOLD (Dupont);
		568,502	Empirical (ADM)
		1,070,489	Grainzyme (Agrivida)
		350,782	Natuphos E 5,000 G (BASF)
		429,405	OptiPhos Plus (Huevepharma)
		290,302	Quantum Blue G (AB Vista)
		598,748	Ronozyme Hi-Phos GT (DSM)
		834,619	Smizyme Thermostable (Origination)
		985,600	Sunphase HT (Wuhan Sunhy Biology Co.)
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  $32 \pm 5$  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 0.13% 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: \_\_\_\_\_

Product name: Trace Mineral Premix

Address: \_\_\_\_\_

Quantity, lb \_\_\_\_\_

Package size, lb \_\_\_\_\_

Phone: \_\_\_\_\_

Use level, lb/ton Nursery diets: 3 lb

Grower diets: 3 lb

Finisher diets: 1.5 to 2.5 lb

Email: \_\_\_\_\_

Date: \_\_\_\_\_

Price desired (circle one)

\$/lb FOB

Date Needed: \_\_\_\_\_

\$/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, 2021

Name: \_\_\_\_\_

Product name: Sow VTM Premix

Address: \_\_\_\_\_

Quantity, lb \_\_\_\_\_

Package size, lb \_\_\_\_\_

Phone: \_\_\_\_\_

Use level, lb/ton Sow diets: 10 lb

Email: \_\_\_\_\_

Price desired (circle one)      \$/lb FOB

\$/lb Delivered

Date Needed: \_\_\_\_\_

Nutrient	Units	Guaranteed Potency per lb of premix	Sources
Vitamin A	IU	750,000	Vitamin A acetate (retinyl acetate) supplied by cross-linked beadlet
Vitamin D (Pick one source and provide source with quotation)	IU	150,000	Vitamin D <sub>3</sub> (cholecalciferol) with at least 50% supplied by a vitamin A/D <sub>3</sub> cross-linked beadlet
	mg	4.54	25-OH D3 (Hy-D)
Vitamin E (Pick one source and provide source with quotation)	IU	6,000	dl- $\alpha$ -tocophorol acetate
	IU	3,000	d- $\alpha$ -tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	300	MPB (Menadione dimethylpyrimidinol bisulfite) or MNB
Vitamin B <sub>12</sub>	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
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	70,761	Axtra PHY GOLD (Dupont);
		170,550	Empirical (ADM)
		321,147	Grainzyme (Agrivida)
		105,235	Natuphos E 5,000 G (BASF)
		128,822	OptiPhos Plus (Huevepharma)
		87,091	Quantum Blue G (AB Vista)
		179,624	Ronozyme Hi-Phos GT (DSM)
250,386	Smizyme Thermostable (Origination)		

## Sow VTM Specification Form – Page 2 of 2

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) 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.