

## Starter Base Mix Specification – Page 1 of 2

Last updated December, 2021

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

Product name: Starter Base Mix

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

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

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

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

Use level, lb/ton Sow diets: \_\_\_\_\_

Nursery diets: 65 lb

Grower diets: \_\_\_\_\_

Fax: \_\_\_\_\_

Finisher diets: \_\_\_\_\_

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

Price desired (circle one)

\$/ton FOB

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

\$/ton Delivered

Amino acids	Units	Guaranteed Potency per Lb of Base Mix		Sources
		mg/lb	ppm	
Lysine	%	7.25		Lysine HCl
Methionine	%	5.2		DL-Methionine
Threonine	%	4.3		L-Threonine
Vitamins	Units	Guaranteed Potency per Lb of Base Mix		Sources
Vitamin A	IU	57,690		Vitamin A acetate (retinyl acetate) supplied by cross-linked beadlet
Vitamin D	IU	23,070		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)	IU	615		dl- $\alpha$ -tocophorol acetate
	IU	307		d- $\alpha$ -tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	46		MNB (Menadione nicotinamide bisulfite)
Vitamin B <sub>12</sub>	mg	0.46		Cyanocobalamin
Niacin	mg	692		Niacinamide, Nicotinic acid
Pantothenic acid	mg	380		d-calcium pantothenate
Riboflavin	mg	115		Crystalline riboflavin
Minerals	Units	Guaranteed Potency of Base Mix		Sources
Copper		230	500	Copper sulfate
Iodine		4.10	9.1	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron		1,535	3,380	Ferrous sulfate
Manganese		460	1,015	Manganese sulfate, manganese oxide
Selenium		4.10	9.1	Sodium selenite
Zinc		1,535	3,380	Zinc sulfate, zinc oxide
Calcium (Minimum) (Maximum)	%	15.8		Calcium carbonate, monocalcium phosphate, or dicalcium phosphate
	%	17.0		
Available phosphorus	%	6.6		Monocalcium or dicalcium phosphate
NaCl (Minimum) (Maximum)	%	10.0		Feed or food-grade salt
	%	11.5		

## Starter Base Mix Specification – Page 2 of 2

Other	Units	Guaranteed Potency per Lb of Base Mix	Sources
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU of FYT	18,144	Axta PHY GOLD (Dupont);
		43,730	Empirical (ADM)
		82,345	Grainzyme (Agrivida)
		26,983	Natuphos E 5,000 G (BASF)
		33,031	OptiPhos Plus (Huevepharma)
		22,331	Quantum Blue G (AB Vista)
		46,058	Ronozyme Hi-Phos GT (DSM)
		64,201	Smizyme Thermostable (Origination)
Carrier			
Oil	%		Mineral or vegetable
<p>The following points must be followed unless approval for changes have been made:</p> <ol style="list-style-type: none"> <li>a) Guaranteed to stay free-flowing, lump free, and non-dusty.</li> <li>b) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.</li> <li>c) When bagged, all bags must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.</li> <li>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.</li> <li>e) Permission must be obtained before using an alternative source for any ingredient.</li> </ol>			

## Sow Base Mix Specification – Page 1 of 2

Last updated December, 2021

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

Product name: Sow Base Mix with phytase

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

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

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

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

Use level, lb/ton Sow diets: 75

Nursery diets: \_\_\_\_\_

Grower diets: \_\_\_\_\_

Fax: \_\_\_\_\_

Finisher diets: \_\_\_\_\_

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

Price desired (circle one)

\$/ton FOB

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

\$/ton Delivered

Vitamins	Units	Guaranteed Potency per Lb of Base Mix		Sources
		mg/lb	ppm	
Vitamin A	IU	100,000		Vitamin A acetate (retinyl acetate) supplied by cross-linked beadlet
Vitamin D (Pick one source and provide source with quotation)	IU	20,000		Vitamin D <sub>3</sub> (cholecalciferol) with at least 50% supplied by a vitamin A/D <sub>3</sub> cross-linked beadlet
	mg	0.60		25-OH D3 (Hy-D)
Vitamin E (Pick one source and provide source with quotation)	IU	800		dl- $\alpha$ -tocophorol acetate
	IU	400		d- $\alpha$ -tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	40		MNB (Menadione nicotinamide bisulfite)
Vitamin B <sub>12</sub>	mg	0.40		Cyanocobalamin
Niacin	mg	600		Niacinamide, Nicotinic acid
Pantothenic acid	mg	333		d-calcium pantothenate
Riboflavin	mg	100		Crystalline riboflavin
Choline	mg	6,660		Choline chloride
Biotin	mg	2.66		Spray dried biotin
Folacin	mg	26		Folic acid
Pyridoxine	mg	12		Pyridoxine HCl
Carnitine	mg	600		L-carnitine
Chromium	mg	2.40		Chromium picolinate
<b>Minerals</b>				
Minerals	Units	Guaranteed Potency of Base Mix		Sources
		mg/lb	ppm	
Copper		200	440	Copper sulfate, Copper chloride
Iodine		3.60	7.9	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron		1,330	2,930	Ferrous sulfate
Manganese		400	880	Manganese sulfate, manganese oxide
Selenium		3.60	7.9	Sodium selenite
Zinc		1,330	2,930	Zinc sulfate, zinc oxide
Calcium (Minimum) (Maximum)	%	19.5		Calcium carbonate, monocalcium phosphate, or dicalcium phosphate
	%	21.5		
Available phosphorus	%	9.2		Monocalcium or dicalcium phosphate
NaCl (Minimum) (Maximum)	%	13.3		Feed or food-grade salt
	%	14.0		

## Sow Base Mix Specification – Page 2 of 2

Other	Units	Guaranteed Potency per Lb of Base Mix	Sources
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU of FYT	9,435	Axta PHY GOLD (Dupont);
		22,740	Empirical (ADM)
		42,820	Grainzyme (Agrivida)
		14,031	Natuphos E 5,000 G (BASF)
		17,176	OptiPhos Plus (Huevepharma)
		11,612	Quantum Blue G (AB Vista)
		23,950	Ronozyme Hi-Phos GT (DSM)
		33,385	Smizyme Thermostable (Origination)
Carrier			
Oil	%		Mineral or vegetable
<p>The following points must be followed unless approval for changes have been made:</p> <ol style="list-style-type: none"> <li>a) Guaranteed to stay free-flowing, lump free, and non-dusty.</li> <li>b) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.</li> <li>c) When bagged, all bags must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.</li> <li>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.</li> <li>e) 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 reproduction. Replacement should be on an equal mg basis. Permission must be obtained before using other alternative sources for any ingredient.</li> </ol>			

## Grow-Finish Base Mix Specification – Page 1 of 2

Last updated December, 2021

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

Product name: GF Base Mix with lysine & phytase

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

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

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

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

Use level, lb/ton Sow diets: \_\_\_\_\_

Nursery diets: \_\_\_\_\_

Grower diets: 45-50

Finisher diets: 35-40

Fax: \_\_\_\_\_

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

Price desired (circle one)

\$/ton FOB

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

\$/ton Delivered

<b>Amino acids</b>	<b>Units</b>	<b>Guaranteed Potency per Lb of Base Mix</b>		<b>Sources</b>
Lysine	%	5.24		Lysine HCl
<b>Vitamins</b>	<b>Units</b>	<b>Guaranteed Potency per Lb of Base Mix</b>		<b>Sources</b>
Vitamin A	IU	45,000		Vitamin A acetate (retinyl acetate) supplied by cross-linked beadlet
Vitamin D	IU	18,000		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)	IU	480		dl- $\alpha$ -tocophorol acetate
	IU	240		d- $\alpha$ -tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	36		MNB (Menadione nicotinamide bisulfite)
Vitamin B <sub>12</sub>	mg	0.36		Cyanocobalamin
Niacin	mg	540		Niacinamide, Nicotinic acid
Pantothenic acid	mg	300		d-calcium pantothenate
Riboflavin	mg	90		Crystalline riboflavin
<b>Minerals</b>	<b>Units</b>	<b>Guaranteed Potency of Base Mix</b>		<b>Sources</b>
		<b>mg/lb</b>	<b>ppm</b>	
Copper		300	660	Copper sulfate
Iodine		5.4	11.9	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron		2,000	4,400	Ferrous sulfate
Manganese		600	1,320	Manganese sulfate, manganese oxide
Selenium		5.4	11.9	Sodium selenite
Zinc		2,000	4,400	Zinc sulfate, zinc oxide
Calcium (Minimum) (Maximum)	%	20.0		Calcium carbonate, monocalcium phosphate, or dicalcium phosphate
	%	21.5		
Available phosphorus	%	4.8		Monocalcium or dicalcium phosphate
NaCl (Minimum) (Maximum)	%	17.0		Feed or food-grade salt
	%	20.0		

**Grow-Finish Base Mix Specification – Page 2 of 2**

	<b>Units</b>	<b>Guaranteed Potency per Lb of Base Mix</b>	<b>Sources</b>
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	14,152	Axtra PHY GOLD (Dupont);
		34,110	Empirical (ADM)
		64,229	Grainzyme (Agrivida)
		21,047	Natuphos E 5,000 G (BASF)
		25,764	OptiPhos Plus (Huevepharma)
		17,418	Quantum Blue G (AB Vista)
		35,925	Ronozyme Hi-Phos GT (DSM)
		50,077	Smizyme Thermostable (Origination)
Carrier			
Oil	%		Mineral or vegetable
<p>The following points must be followed unless approval for changes have been made:</p> <ul style="list-style-type: none"> <li>a) Guaranteed to stay free-flowing, lump free, and non-dusty.</li> <li>b) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.</li> <li>c) When bagged, all bags must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.</li> <li>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.</li> <li>e) Permission must be obtained before using an alternative source for any ingredient.</li> </ul>			

## Grow-Finish DDGS Base Mix Specification – Page 1 of 2

Last updated December, 2021

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Fax \_\_\_\_\_  
 Email \_\_\_\_\_

Product name: GF DDGS Base Mix  
 \_\_\_\_\_  
 Quantity, lb \_\_\_\_\_ Package size, lb \_\_\_\_\_  
 Use level, lb/ton Sow diets: \_\_\_\_\_  
 Nursery diets: \_\_\_\_\_  
 Grower diets: 40 to 45 lb  
 Finisher diets: 35

Price desired (circle one)      \$/ton FOB

\$/ton Delivered

Amino acids	Units	Guaranteed Potency per Lb of Base Mix		Sources
Lysine	%	11.8		Lysine HCl
Vitamins	Units	Guaranteed Potency per Lb of Base Mix		Sources
Vitamin A	IU	45,000		Vitamin A acetate (retinyl acetate) supplied by cross-linked beadlet
Vitamin D	IU	18,000		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)	IU	480		dl- $\alpha$ -tocophorol acetate
	IU	240		d- $\alpha$ -tocophorol acetate (Natural vitamin E)
Vitamin K (menadione)	mg	36		MNB (Menadione nicotinamide bisulfite)
Vitamin B <sub>12</sub>	mg	0.36		Cyanocobalamin
Niacin	mg	540		Niacinamide, Nicotinic acid
Pantothenic acid	mg	300		d-calcium pantothenate
Riboflavin	mg	90		Crystalline riboflavin
Minerals	Units	Guaranteed Potency of Base Mix		Sources
		mg/lb	ppm	
Copper		300	660	Copper sulfate
Iodine		5.4	11.9	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron		2,000	4,400	Ferrous sulfate
Manganese		600	1,320	Manganese sulfate, manganese oxide
Selenium		5.4	11.9	Sodium selenite
Zinc		2,000	4,400	Zinc sulfate, zinc oxide
Calcium (Minimum) (Maximum)	%	20.0		Calcium carbonate, monocalcium phosphate, or dicalcium phosphate
	%	23.0		
Available phosphorus	%	0.2		Monocalcium or dicalcium phosphate
NaCl (Minimum) (Maximum)	%	17.0		Feed or food-grade salt
	%	20.0		

## Grow-Finish DDGS Base Mix Specification – Page 2 of 2

	Units	Guaranteed Potency per Lb of Base Mix	Sources
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	14,152	Axtra PHY GOLD (Dupont);
		34,110	Empirical (ADM)
		64,229	Grainzyme (Agrivida)
		21,047	Natuphos E 5,000 G (BASF)
		25,764	OptiPhos Plus (Huevepharma)
		17,418	Quantum Blue G (AB Vista)
		35,925	Ronozyme Hi-Phos GT (DSM)
		50,077	Smizyme Thermostable (Origination)
Carrier			
Oil	%		Mineral or vegetable
<p>The following points must be followed unless approval for changes have been made:</p> <ul style="list-style-type: none"> <li>f) Guaranteed to stay free-flowing, lump free, and non-dusty.</li> <li>g) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.</li> <li>h) When bagged, all bags must be labeled with tags. Tags should include date of manufacture, lot number, guaranteed analysis, inclusion rate, and proposed use of the product.</li> <li>i) 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.</li> <li>j) Permission must be obtained before using an alternative source for any ingredient.</li> </ul>			