Starter Base Mix Specification – Page 1 of 2 Last updated January, 2018

Name:			Pr	roduct name: <u>Starter Base</u>	e Mix
Address:			Qı	uantity, lb	Package size, lb
Phone:			Us	se level, lb/ton Sow diets Nursery diets	65 lb
Fax:				Grower diets Finisher diets	: ::
Date:		_	Pr	rice desired (circle one)	\$/ton FOB
Date Needed:					\$/ton Delivered
Amino acids	Units	Guaranteed per Lb of E		Sources	
Lysine	%	7.2	5	Lysine HCI	
Methionine	%	5.2)	DL-Methionine	
Threonine	%	4.3	}	L-Threonine	
Vitamins	Units	Guaranteed Potency		Sources	
Vitamin A	IU	57,690		Vitamin A acetate (retinyl acetate)	
Vitamin D	IU	23.070		Vitamin D ₃ (cholecalcifer supplied by a vitamin A/I	
Vitamin E (Pick one	IU	615 c		dl-α-tocophorol acetate	
source and provide source with quotation)	IU	307	7	d-α-tocophorol acetate (l	Natural vitamin E)
Vitamin K (menadione)	mg	46 I		MNB (Menadione nicotir	namide bisulfite)
Vitamin B ₁₂	mg	0.46		Cyanocobalamin	
Niacin	mg	692		Niacinamide, Nicotinic ad	cid
Pantothenic acid	mg			d-calcium pantothenate	
Riboflavin	mg	115	5	Crystalline riboflavin	
		Guaranteed of Base			
Minerals	Units	mg/lb	ppm	Sources	
Copper		230	500	Copper sulfate	
lodine		4.10	9.1	Ca iodate, Ethylenediam (EDDI)	ine dihydriodide
Iron		1,535	3,380	Ferrous sulfate	
Manganese		460	1,015	Manganese sulfate, man	ganese oxide
Selenium		4.10	9.1	Sodium selenite	
Zinc		1,535	3,380	Zinc sulfate, zinc oxide	
Calcium (Minimum)	%	15.8		Calcium carbonate, mon	ocalcium phosphate,
(Maximum)	%	17.0	0	or dicalcium phosphate	
Available phosphorus	%	6.6	<u> </u>	Monocalcium phosphate phosphate	or dicalcium
NaCl (Minimum)	%	10.0			

NaCl

(Minimum) (Maximum)

% %

11.5

Feed or food-grade salt

Starter Base Mix Specification - Page 2 of 2

Other	Units	Guaranteed Potency per Lb of Base Mix	
Phytase (Pick one source and provide source with	FTU	16,800	Axtra TPT (Dupont)
quotation) – Must use guaranteed phytase level	FTU		OptiPhos PF (Huevepharma); Quantum Blue G (AB Vista)
provided by the phytase manufacturer.	FYT		Ronozyme Hi-Phos GT (DSM); Natuphos E 5,000 G (BASF)
Carrier			
Oil	%		Mineral or vegetable

- a) Guaranteed to stay free-flowing, lump free, and non-dusty.
- b) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.
- 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.
- 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.
- e) Permission must be obtained before using an alternative source for any ingredient.

Sow Base Mix Specification – Page 1 of 2 Last updated January, 2018 Product name: Sow Base Mix with phyta

Name:			Р	roduct name: Sow Base M	ix with phytase_	
Address:			_			
			C	luantity, lb	Package size, lb	
Phone:			U	se level, lb/ton Sow diets: Nursery diets:	75	
Phone:				Grower diets:		
Fax:				Finisher diets:		
Date:			Р	rice desired (circle one)	\$/ton FOB	
Date Needed:					\$/ton Delivered	
.		Guaranteed				
Vitamins	Units	per Lb of E				
Vitamin A	IU	100,0	000	Vitamin A acetate (retinyl		
Vitamin D	IU	20,6	00	Vitamin D ₃ (cholecalciferd supplied by a vitamin A/D		
Vitamin E (Pick one source and provide	IU	80	0	dl-α-tocophor	rol acetate	
source with quotation)	IU	400	0	d-α-tocophorol acetate	(Natural vitamin E)	
Vitamin K (menadione)	mg	40)	MNB (Menadione nicotina	amide bisulfite)	
Vitamin B ₁₂	mg	0.40		Cyanocobalamin		
Niacin	mg	600	0	Niacinamide, Nicotinic ac	Niacinamide, Nicotinic acid	
Pantothenic acid	mg			d-calcium pantothenate		
Riboflavin	mg	100		Crystalline riboflavin		
Choline	mg	6,660		Choline chloride		
Biotin	mg	2.6	6	Biotin		
Folacin	mg	26	6	Folic acid		
Pyridoxine	mg			Pyridoxine HCI		
Carnitine	mg	600		L-carnitine		
Chromium	mg	2.40		Chromium picolinate		
		Cuarantas	d Datana			
		Guaranteed Potency of Base Mix				
Minerals	Units	mg/lb	ppm	Sources		
Copper		200	440	Copper sulfate, Copper c	hloride	
lodine		3.60	7.9	Ca iodate, Ethylenediami (EDDI)	ne dihydriodide	
Iron		1,330	2,930	Ferrous sulfate		
Manganese		400	880	Manganese sulfate, mang	ganese oxide	
Selenium		3.60	7.9	Sodium selenite		
Zinc		1,330	2,930	Zinc sulfate, zinc oxide		
Calcium (Minimum)	%	19.5		Calcium carbonate, monocalcium phosphate,		
(Maximum)	%	21.5		or dicalcium phosphate	odioidiii piioopiiato,	
Available phosphorus	%	9.2	_ 	Monocalcium phosphate	or dicalcium	
	%	13.		phosphate		
NaCl (Minimum) (Maximum)	%	14.		Feed or food-grade salt		
· · · · · · · · · · · · · · · · · · ·				<u> </u>		

Sow Base Mix Specification - Page 2 of 2

Other	Units	Guaranteed Potency per Lb of Base Mix	
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU	9,070	Axtra TPT (Dupont)
	FTU	8,660	OptiPhos PF (Huevepharma); Quantum Blue G (AB Vista)
	FYT	15,100	Ronozyme Hi-Phos GT (DSM); Natuphos E 5,000 G (BASF)
Carrier			
Oil	%		Mineral or vegetable

- a) Guaranteed to stay free-flowing, lump free, and non-dusty.
- b) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.
- 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.
- 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.
- e) Permission must be obtained before using an alternative source for any ingredient.

Grow-Finish Base Mix Specification – Page 1 of 2 Last updated January, 2018

Name:			P	Product name: GF Base Mi	x with lysine & phytase	
Address:			C	Quantity, lb	Package size, lb	
				•		
Phone:		_	Ĺ	Jse level, lb/ton Sow diets Nursery diets		
Fax:				Grower diets Finisher diets	: 45-50 s: 35-40	
Date:		-	Р	rice desired (circle one) \$/ton FOB		
Date Needed:					\$/ton Delivered	
Amino acids	Units	Guaranteed per Lb of I				
Lysine	%	5.2	24	Lysine HCI		
Vitamins	Units	Guaranteed per Lb of I		· 1		
Vitamin A	IU			Vitamin A acetate (retinyl acetate)		
Vitamin D	IU	Y		Vitamin D ₃ (cholecalciferol) with at least 50% supplied by a vitamin A/D ₃ cross-linked beadlet		
Vitamin E (Pick one	IU			dl-α-tocophorol acetate		
source and provide source with quotation)	IU	240		d-α-tocophorol acetate (l	Natural vitamin E)	
Vitamin K (menadione)	mg	36 I		MNB (Menadione nicotir	namide bisulfite)	
Vitamin B ₁₂	mg	0.36		Cyanocobalamin		
Niacin	mg	540		Niacinamide, Nicotinic ad	cid	
Pantothenic acid	mg			d-calcium pantothenate		
Riboflavin	mg	90		Crystalline riboflavin		
		Guaranteed Potency of Base Mix				
Minerals	Units	mg/lb	ppm	Sources		
Copper		300	660	Copper sulfate		
Iodine		5.4	11.9	Ca iodate, Ethylenediam (EDDI)	ine dihydriodide	
Iron		2,000	4,400	Ferrous sulfate		
Manganese		600	1,320	Manganese sulfate, man	nganese oxide	
Selenium		5.4	11.9	Sodium selenite		
Zinc		2,000	4,400	Zinc sulfate, zinc oxide		
Calcium (Minimum)	%	20.0 21.5		Calcium carbonate, mon	ocalcium phosphate,	
(Maximum)	%			or dicalcium phosphate		
Available phosphorus	%	4.8		Monocalcium phosphate phosphate	or dicalcium	
NaCl (Minimum)	%	17.				
(Maximum)	%	20	()	Feed or food-grade salt		

Grow-Finish Base Mix Specification – Page 2 of 2

	Units	Guaranteed Potency per Lb of Base Mix	Sources
Phytase (Pick one source and provide source with	FTU	8,160	Axtra TPT (Dupont)
quotation) – Must use guaranteed phytase level	FTU		OptiPhos PF (Huevepharma); Quantum Blue G (AB Vista)
provided by the phytase manufacturer.	FYT		Ronozyme Hi-Phos GT (DSM); Natuphos E 5,000 G (BASF)
Carrier			
Oil	%		Mineral or vegetable

- a) Guaranteed to stay free-flowing, lump free, and non-dusty.
- b) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.
- 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.
- 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.
- e) Permission must be obtained before using an alternative source for any ingredient.

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

Last updated January, 2018

Name		Product name: GF DDGS Base Mix			
Address			Qua	antity, lb	Package size, lb
Phone			Use	e level, lb/ton Sow diets:	
Fax				Nursery diets:	
Email					40 to 45 lb
				Finisher diets	:35
			Prid	ce desired (circle one)	\$/ton FOB
					\$/ton Delivered
Amino acids	Units		ed Potency Base Mix	Sources	
Lysine	%	1	1.8	Lysine HCI	
		•		, ,	
			ed Potency		
Vitamins	Units	per Lb of	Base Mix	Sources	
Vitamin A	IU	45,	000	Vitamin A acetate (retin	
				Vitamin D₃ (cholecalcife	
Vitamin D	IU	18	000	supplied by a vitamin A/beadlet	'D₃ cross-linked
Vitamin E (Pick one					
source and provide	IU	4	80	dl-α-tocophorol acetate	
source with quotation)	IU	2	40	d-α-tocophorol acetate	(Natural vitamin E)
Vitamin K (menadione)	mg	3	36	MNB (Menadione nicoti	namide bisulfite)
Vitamin B ₁₂	mg	0.	36	Cyanocobalamin	
Niacin	mg	5	40	Niacinamide, Nicotinic a	acid
Pantothenic acid	mg			d-calcium pantothenate	
Riboflavin	mg			Crystalline riboflavin	
			ed Potency se Mix		
Minerals	Units	mg/lb	ppm	Sources	
Copper		300	660	Copper sulfate	
				Ca iodate, Ethylenedian	nine dihydriodide

11.9

4,400

1,320

11.9

4,400

(EDDI)

Ferrous sulfate

Sodium selenite

phosphate

Zinc sulfate, zinc oxide

or dicalcium phosphate

Feed or food-grade salt

Manganese sulfate, manganese oxide

Monocalcium phosphate or dicalcium

Calcium carbonate, monocalcium phosphate,

5.4

2,000

600

5.4

2,000

20.0

23.0

0.2

17.0

20.0

%

%

%

%

%

lodine

Manganese

Calcium (Minimum)

Available phosphorus

(Maximum)

(Minimum) (Maximum)

Selenium

Iron

Zinc

NaCl

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

	Units	Guaranteed Potency per Lb of Base Mix	
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	8,160	Axtra TPT (Dupont)
	FTU		OptiPhos PF (Huevepharma); Quantum Blue G (AB Vista)
	FYT	13,600	Ronozyme Hi-Phos GT (DSM); Natuphos E 5,000 G (BASF)
Carrier			
Oil	%		Mineral or vegetable

- f) Guaranteed to stay free-flowing, lump free, and non-dusty.
- g) The final moisture level will be less than 10% and 98% product will flow through #20 U.S./Canadian screen.
- 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.
- 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.
- j) Permission must be obtained before using an alternative source for any ingredient.