Phase 2 Supplement Specification – Page 1 of 2 (updated December, 2016)

Fish meal option

Name:		Product name: Phase 2 Supplement (350 lb/ton)		
Address:		Quantity, lb	Package size, lb	
Phone: Fax:		Use: 350 lb of supplement should be added with 540 lb soybean meal and 1110 lb of corn		
		Price desired (circle one)	\$/ton FOB	
Date:			\$/ton Delivered	
Date Needed:				

Ingredients	Units	Guaranteed Potency In Supplement		Sources
		Select one option		
		1	2	
Dried whey	%	57.14		Land O'Lakes or equivalent
Whey permeate	%		51.43	Dairylac 80 (International Ingredients or equivalent
Fish meal	%	17.14	28.57	
Corn Minimum	%	0	0	
Maximum	%	2.0	2.0	
Monocalcium phos (21% P)	%	3.71	3.43	
Limestone (38% Calcium)	%	3.71	3.43	
L-Lysine HCI	%	2.00	2.00	
DL-Methionine	%	0.77	0.77	
L-Threonine	%	0.74	0.83	
L-Tryptophan	%	0.086	0.086	
L-Valine	%	0.286	0.286	
Salt	%	3.14	3.14	
Zinc oxide	%	1.43	1.43	

		Guaranteed Potency Added per Ton of	
Vitamins	Units	Supplement	Sources
Vitamin A	IU	45,000,000	Vitamin A acetate (retinyl acetate)
Vitamin D	IU		Vitamin D ₃ (cholecalciferol) with at least 50% supplied by a vitamin A/D ₃ crosslinked beadlet
Vitamin E (Pick one source and	mg	228,500	dl-α-tocophorol acetate
provide source with quotation)	mg	114,250	d-α-tocophorol acetate (Natural E)
Vitamin K (menadione)	mg		MPB (Menadione dimethylpyrimidinol bisulfite) or MNB
Vitamin B ₁₂	mg	200	Cyanocobalamin
Niacin	mg	425,000	Niacinamide, Nicotinic acid
Pantothenic acid	mg	142,800	d-calcium pantothenate
Riboflavin	mg	42,800	Crystalline riboflavin

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Minerals	Units	Guaranteed Potency Added to Supplement	Sources
Copper	ppm	94	Copper sulfate
lodine	ppm	1.70	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron	ppm	625	Ferrous sulfate, Ferrous carbonate
Manganese	ppm	185	Manganese sulfate, manganese oxide
Selenium	ppm	1.70	Sodium selenite
Zinc	ppm	11,230	Zinc oxide (MUST BE ZINC OXIDE)
	Units	Guaranteed Potency per Lb of Supplement	Sources
Phytase (Pick one source and	FTU	1,940	Axtra TPT (Dupont)
provide source with quotation) – Must use guaranteed phytase	FTU	1,855	OptiPhos PF (Huevepharma); Quantum Blue G (AB Vista)
level provided by the phytase manufacturer.	FYT	2,590	Ronozyme Hi-Phos GT (DSM)

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

- a) Guaranteed to stay free-flowing and lump free.
- b) 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.
- 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) Permission must be obtained before using an alternative source for any ingredient.
- e) When using the KSU premix recommendations, the supplement should contain 1.43% vitamin premix with phytase (28.6 lb/ton of supplement) and 0.86 lb of trace mineral premix (17.2 lb/ton of supplement).