Complete Starter Diet Specification (Phase 1) – Page 1 of 2
May, 2018

Product name: Phase 1 Diet

Quantity, lb _____ Package size, lb _____

Ingredients	Units	Guaranteed Potency In Complete Diet	Sources
Spray-dried whey	%	25.0	Edible human grade
Dried Distillers Grains with Solubles (DDGS)	%	5	Minimum Fat 7.5%, <1 ppm DON
Processed Soy Products	%	2.5	Hamlet Protein (HP 300) Nutraferma NF8 (60 lb/ton) is an acceptable substitute.
Fish Meal	%	4.5	Select Menhaden or IPC 780
Corn Minimum	%	38.0	
Maximum	%	40.0	
Soybean meal, 46.5% protein	%	17.65	
Fat	%	3.0	Soybean oil or choice white grease
Monocalcium phosphate (21% P)	%	0.4	
Limestone (38% Calcium)	%	0.6	
L-lysine HCl	%	0.475	
Methionine hydroxy analog	%	0.24	If using DL-Met use .2%
Threonine	%	0.175	
L-tryptophan	%	0.05	
L-valine	%	0.1	
Salt	%	0.30	
Sodium metabisulfite	%	0.25	SMB
Vitamins	**Units**	**Guaranteed Potency Added per Ton of Complete Feed**	**Sources**
Vitamin A	IU	7,500,000	Vitamin A acetate (retinyl acetate)
Vitamin D	IU	1,500,000	Vitamin D_3 (cholecalciferol)
Vitamin E	IU	60,000	d or dl-α-tocophorol acetate
Vitamin K (menadione)	mg	3,000	MPB (Menadione dimethylpyrimidinol bisulfite) or MNB
Vitamin B_{12}	mg	30	Cyanocobalamin
Niacin	mg	45,000	Niacinamide, Nicotinic acid
Pantothenic acid	mg	25,000	d-calcium pantothenate
Riboflavin	mg	7,500	Crystalline riboflavin
Choline	mg	150,000	Choline chloride
Pyridoxine	mg	900	Pyridoxine hydrochloride

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Minerals	**Guaranteed Potency Added in final diet**		**Sources**
	mg/lb	ppm	
Copper	7.5	16.5	Copper sulfate
Iodine	0.135	0.297	Ca iodate, Ethylenediamine dihydriodide (EDDI)
Iron	50	110	Ferrous sulfate, Ferrous carbonate
Manganese	15	33	Manganese sulfate, manganese oxide
Selenium	0.135	0.297	Sodium selenite
Zinc	1,360	3,000	**Zinc oxide (MUST BE ZINC OXIDE)**

Phytase	**Units**	**Guaranteed Potency Per kg of final diet**	**Source**
Phytase (Pick one source and provide source with quotation) – Must use guaranteed phytase level provided by the phytase manufacturer.	FTU or FYT	2,000	Optiphos PF (Huevepharma); Quantum Blue 2G or 5G – (AB Vista); Ronozyme Hi-Phos GT (DSM)

Medication (As decided by the producer)	**Units**	**Guaranteed Potency Added per Ton of Complete Feed**	**Sources (Decided by the producer)**

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

a) Must be pelleted in 1/8 or 3/32" pellets.
b) Guaranteed to stay free-flowing, lump free, and non-dusty.
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.