



NATIONAL LISTING OF APPROVED FEED INGREDIENTS FOR FEEDMILLS IN NIGERIA



NIAS/RA/LAFI-2021

CLASS	INGREDIENTS	Moisture%(max)	Crude Protein%(min)	Energy ME(Kcal/Kg)(min)	Ether Extract(Oil)%(max)	Crude Fiber%(max)	Lysine %(min)	Methionine %(min)	Calcium %	Phosphorus %(Available)	REMARK
ENERGY SOURCES	Maize (White)	12.00	7.00	3150.00	4.00	3.00	0.20	0.15	0.02	0.27	
	Maize (Yellow)	12.00	7.00	3150.00	4.00	3.00	0.20	0.15	0.02	0.27	
	Guinea Corn (White)	10.00	8.00	3100.00	3.00	5.00	0.21	0.16	0.04	0.32	
	Guinea Corn (Yellow)	10.00	8.00	3100.00	3.00	5.00	0.21	0.16	0.04	0.32	
	Millet	12.00	10.00	2560.00	4.00	8.00	0.40	0.18	0.02	0.10	
	Whole Wheat	11.00	10.00	3200.00	1.60	2.80	0.32	0.17	0.05	0.40	
	Wheat Flour	11.00	15.00	3040.00	1.50	1.00	-	-	-	-	
	Cassava Chips/Flour	10.00	2.50	3000.00	0.50	3.50	0.07	0.02	0.20	0.03	
	Cassava Grits (Unpeeled)	10.00	5.00	2850.00	0.50	5.00	0.07	0.03	0.20	0.03	
	Cassava Starch	10.00	2.00	2800.00	1.00	2.00					
	Vegetable Oil	1.00	-	7800.00	97.00	-	-	-	-	-	
	Refined Soya Oil	1.00	-	7800.00	97.00	-	-	-	-	-	
	Fish Oil	1.00	-	7800.00	97.00	-	-	-	-	-	
		Soya Oil	-	-	8370.00	-	-	-	-	-	-
	Palm Oil	-	-	7710.00	-	-	-	-	-	-	Peroxide Value=8.35 Meq/Peroxide/Kg
	Molasses	25.00	3.00	2343.00	0.10	-	-	-	0.80	0.08	
PROTEIN	PLANT SOURCE PROTEINS										
	Groundnut Cake*	10.00	40.00	2640.00	6.00	8.00	1.60	0.48	0.20	0.20	
	Groundnut Meal**	10.00	42.00	2550.00	3.00	8.00	1.60	0.48	0.20	0.20	
	Soya bean Meal	10.00	42.00	2500.00	4.50	6.50	2.80	0.59	0.20	0.60	
	Soya bean Cake	10.00	44.00	2950.00	8.00	8.00	2.80	0.59	0.20	0.60	

* Groundnut Cake: Please note that this is mechanical press without shells

**Groundnut Meal: Please note that this is solvent extracted without shells



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PROTEIN CONTD	Fullfat Soya (Extruded)	8.00	37.00	3000.00	17.00 Min	5.50	2.25	0.49	0.20	0.50	
	Full Fat Soya (Roasted/Toasted)	8.00	37.00	3100.00	18.00 Min	5.50	2.25	0.49	0.20	0.50	
	Full Fat Soya (Micronized)	8.00	37.00	3100.00	18.00 Min	5.50	2.25	0.49	0.20	0.50	
	Brewers' Yeast	7.00	30.00	2420.00	1.00	3.00	3.40	0.70	0.10	0.46	
	Cottonseed Meal (Delinted, Decorticated and Solvent Extracted)	9.00	35.00	2146.00	2.00	10.00	1.15	0.40	0.25	0.30	
	Cotton Seed Cake (Mechanically pressed)	9.00	25.00	2146.00	5.00	25.00	1.00	0.30	0.15	1.10	
	Roselle Seed Cake (Zobo)	12.00	29.00	2500.00	6.00	17.00	1.60	0.45	0.45		
	Sunflower Cake	10.00	45.40	2320.00	2.90	12.20	1.00	0.50	0.37	0.16	
	Corn Gluten	10.00	60.00	3740.00	2.00	2.50	1.00	1.90	0.02	0.18	
	Wheat Gluten	10.00	75.00	3852.00	6.00	-	1.39	1.30	-	-	
	ANIMAL SOURCE PROTEIN										
	Fishmeal (72%)	8.00	70.00	2900.00	8.00	1.00	4.50	1.92	6.00 max	3.00 max	
	Fishmeal (65%)	8.00	63.00	2860.00	7.00	2.00	3.00	1.00	8.00 max	5.00max	
Fish Meal	8.00	45.00– 55.00	2700.00	7.00	2.00	3.00	1.00	10.00max	7.00 max		
Fish Meal- Analogue*											
Blood Meal (Spray-dried)**	11.00	80.00	3220.00	1.00	1.00	6.90	1.00	0.28	0.22		

*Please note that Fish meal analogue expiration date must be specified (Animal source not exceeding 9 months and 18months for plant source) from date of production and the following document must be provided; material safety data sheet, minimum nutrients specifications, batch number and Health certificate authorized by the country of manufacture

**Please note that Blood Meal is for Fish Feed only



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PROTEIN	Insect/Maggot Meal	1.02	50.00	3952.86	34.60	11.57	-	-	-	-	
CONTD	Hydrolyzed Feather Meal	5.00	88.00	2831.00	5.50min	-	-	-	0.35	0.25	
	Poultry Meal	4.88	62.00	3004.00	14.30	2.20	2.50	0.82	4.10	2.42	
FILLERS/ INDUSTRIAL BY-PRODUCTS	Maize Offal	9.00	9.00	2500.00	2.80	12.00	0.25	0.18	0.01	0.09	
	Sorghum Offal	9.00	9.00	2700.00	5.00	6.00	0.25	0.18	0.01	0.09	
	Wheat Offal	11.00	15.00	1870.00	3.50	8.50	0.90	0.25	0.10	0.30	
	Palm Kernel Meal (Solvent Extracted)	10.00	12.00	2175.00	3.00	15.00	0.64	0.39	0.21	0.16	
	Palm Kernel Cake	10.00	16.00	2450.00	7.50	15.00	0.64	0.39	0.21	0.16	
	Rice Bran	10.00	12.00	2860.00	25.00	9.00	0.50	0.24	0.04	0.46	
	Rice Husk	10.00	3.00	1200.00	1.00	28.00	-	-	-	-	
	Rice Offal (Parboiled)	10.00	3.50	1200.00	3.00	36.00	0.20	0.07	0.16		
	Rice Offal (Un-Parboiled)	10.00	5.50	1300.00	3.50	30.00	0.20	0.07	0.15		
	Brewers Dried Grains	10.00	18.00	1980.00	5.00	15.00	0.90	0.40	0.20	0.16	
	Corn Cobs	11.00	2.30	528.00	0.40	35.00	-	-	0.11	-	
Cassava sifting	13.00	2.00	1800.00	1.00	20.00	-	-	-	-		



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		Crude													
MICRO INGREDIENTS	L Lysine						94.00								
	Lysine HCL		78.00				93.40								
	Lysine SO ₄		55.00				75.00								
	Liquid lysine		50.00				50.00								
	Methionine							100.00							
	L-Methionine							98.50							
	DL-Methionine							99.00							
	Liquid Methionine	12.00						88.00							
	Methionine Hydroxyl Analogue (MHA)							84.00					12.00		
	Threonine								98.50						
	Tryptophan									98.50					
	Isoleucine										93.40				
	Valine											98.00			



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MACRO	Bone Meal								28.00	13.00	
	Oyster Shell								35.00		
	Periwinkle Shell								32.00		
	Limestone								35.00		
	Dicalcium Phosphate(DCP) / Monocalcium Phospahte*								22.00	18.00	
	Salt	5.00									98.5% (min) Purity
VITAMINS & MICRO MINERALS	SEE SEPARATE TABLE NEXT PAGE										
ADDITIVES**	Enzymes *** 1. Non-starch polysaccharides (NSP). 2. Protease Enzymes.										
	Anti mould										
	Emulsifier										
	Toxin binders										
	Acidifiers										
	Prebiotics										
	Probiotics										
	Synbiotics										
	Pellet Binder										

*Manufacturers to provide a brief write-up on process of production stating difference from rock phosphate and Importers of Phosphate requires clearance from NSA office due to security risk attached to the product.

** Manufacturers to give specifications

***Enzymes are produced through a fermentation technology process in a controlled highly sterilized environment-utilizing microorganism like yeast and bacteria



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VITAMINS AND MICRO MINERALS

	SOURCE	POTENCY (MIN)
VITAMINS		
Vitamin A	Vitamin A 500	500,000IU/g
	Vitamin AD ₃ 500/100	500,000IU/g of Vit A; 100,000IU/g of VitD ₃
	Vitamin AD ₃ 1000/200	1,000,000,000IU/g of Vit A; 200,000IU/g of VitD ₃
Vitamin D	Vitamin D ₃	500,000IU/g
	Vitamin AD ₃	500,000IU/g of Vit A; 100,000IU/g of VitD ₃
	Vitamin AD ₃	1,000,000,000IU/g of Vit A; 200,000IU/g of VitD ₃
Vitamin E	Vitamin E 50	500 IU /g
Vitamin K	Vitamin K ₃	50%9
Vitamin B ₂ (Riboflavin)	Vitamin B ₂	80%
Vitamin B ₁₂	Vitamin B ₁₂	1%
Vitamin B ₆ Pyridoxine HCl	Vitamin B ₆	100%
Niacin (Vit. B ₃)	Niacin (Vit. B ₃)	100%
	Nicotinamide	100%
Folic Acid	Folic Acid	45%
	Folic Acid	80%
Pantothenic Acid	Calcium Pantothenate	80%
		98%
Biotin	Biotin	2% & 10%
Thiamine (Vit B ₁)	Thiamine	98%
Vitamin C	Vitamin C (Aqua)	35%
	Vitamin C (Coated)	98-100



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Choline	Choline Chloride	50% - 70%
	Liquid choline	60%-75%
	Silica carrier	50%
	Corncob carrier	70%
MICRO MINERALS		
Iodine	Potassium iodate	59%
Copper	Copper Sulphate*	25%
	Organic Copper**	
Manganese	Manganese Oxide	57%
	Manganese Sulphate	31%
	Organic Manganese**	
Zinc	Zinc Oxide	78%
	Zinc Sulphate	35%
	Organic Zinc**	
Iron	Ferrous Carbonate	36%
	Ferrous Sulphate	30%
Selenium	Sodium Selenite	45%
	Organic Selenium**	
Cobalt		20%
ANTI OXIDANT	Butyl Hydroxy Toluene (BHT)	100%
	Butyl Hydroxy Acetate (BHA)	100%
PRESERVATIVES/ANTICAKING AGENTS		
Yolk Colorant	Silica	
Organic Acids	Caropyhll	
	Lucantin	
	Formic Acid	
	Butyric Acid	
	Propionic Acid	
	Acetic Acid	

*Manufacturers to state process of production by explosion. $CuSO_4$ used in premixes is feed-grade

**Potency of Organic Mineral to be stated by manufacturers