



NATIONAL LISTING OF APPROVED INGREDIENTS FOR FEED IN NIGERIA



NIAS/RA/LAFI-2018

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	Maize-White	12	7.0	3350	4.0	3.0	0.2	0.15	0.02	0.27	
	Maize -Yellow	12	7.0	3350	4.0	3.0	0.2	0.15	0.02	0.27	
	Guinea Corn-White	10	8.0	3288	3.0	5.0	0.21	0.16	0.04	0.32	
	Guinea Corn-Yellow	10	8.0	3288	3.0	5.0	0.21	0.16	0.04	0.32	
	Millet	12	10.0	2560	4.00	8.0	0.40	0.18	0.02	0.10	
	Whole Wheat	11	10.0	3200	1.6	2.8	0.32	0.17	0.05	0.4	
	Wheat Flour	11	15.0	3040	1.5	1.0	-	-	-	-	
	Cassava Chips/Flour	10	2.5	3000	0.50	3.50	0.07	0.02	0.20	0.03	
	Cassava Grits	10	5.0	2850	0.5	5.0	0.07	0.03	0.2	0.03	
	Cassava Starch	10.0	2.0	2800	1.0	2.0					
	Vegetable Oil	1	-	7800	97	-	-	-	-	-	
	Refined Soya Oil	1	-	7800	97	-	-	-	-	-	
	Fish Oil	1	-	7800	97	-	-	-	-	-	
	Soya Oil	-	-	8370	-	-	-	-	-	-	Peroxide Value=21.38 Meq/Peroxide /Kg
	Palm Oil	-	-	7710	-	-	-	-	-	-	Peroxide Value=8.35 Meq/Peroxide /Kg
Molasses	25	3.0	2343	0.1	0	-	-	0.8	0.08		
Cassava Sifting	13	2	1,800	1.0	20	-	-	-	-		
PROTEIN	PLANT SOURCE PROTEINS										
	GROUNDNUT CAKE	10	40	2640	6.00	8.00	1.60	0.48	0.20	0.20	



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PROTEIN CONTD	Groundnut Meal	10	42	2550	3.0	8.0	1.60	0.48	0.20	0.20		
	Soybean Meal	10	42	2500	4.5	6.50	2.80	0.59	0.20	0.60		
	Soybean Cake	10	45	2950	8.0	8.0	2.80	0.59	0.20	0.60		
	Full fat Soya- Extruded	8.0	37	3000	17.00 Min	5.50	2.25	0.49	0.20	0.50		
	Full Fat Soya-Roasted/Toasted	8.0	37	3100	18.0 Min	5.50	2.25	0.49	0.20	0.50		
	Full Fat Soya-Micronized	8.0	37	3100	18.0 Min	5.50	2.25	0.49	0.20	0.50		
	Brewers' Yeast	7	30	2420	1.00	3.00	3.40	0.70	0.10	0.46		
	Cottonseed Meal (De Linted, Decorticated and Solvent Extracted)	9	35	2146	4.50	10.00	1.15	0.40	0.25	0.30		
	Cotton Seed Cake (Mechanically pressed)	9	25	2146	5.0	25.0	1.0	0.3	0.15	1.10		
	Roselle Seed Cake (Zobo)	12	29.0	2500	6.0	17.0	1.6	0.45	0.45			
	Sunflower Cake	10	45.40	2320	2.90	12.2	1.0	0.50	0.37	0.16		
	Corn Gluten	10	60	3740	2	2.5	1	1.9	0.02	0.18		
	Wheat Gluten	-	75	3852	6	-	1.39	1.3	-	-		
	Animal Source Protein											
	Fishmeal (72%)	8	72	2900	8.0	1.00	4.50	1.92	6 max	3.00 max		
	Fishmeal 65%	8	65	2860	7.0	2	3.0	1.0	8 max	5max		
	Fish Meal	8	45-55	2700	7.0	2.0	3.0	1.0	10max	7 max		



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	Fish Meal- Analogue*										
	BLOOD MEAL (Spray-dried)**	11	80	3220	1	1	6.9	1	0.28	0.22	
FILLERS/ INDUSTRIAL BY-PRODUCTS	Maize Offal	9	9	2500	2.80	12.00	0.25	0.18	0.01	0.09	
	Sorghum Offal	9	9	2700	5.00	6.00	0.25	0.18	0.01	0.09	
	Wheat Offal	11	15	1870	3.50	8.5	0.90	0.25	0.10	0.30	
	Palm Kernel Meal-Solvent Extracted	10	15	2175	3.00	15.00	0.64	0.39	0.21	0.16	
	Palm Kernel Cake	10	16	2450	7.5	15.0	0.64	0.39	0.21	0.16	
	Rice Bran	10	12	2860	25.0	9.0	0.50	0.24	0.04	0.46	
	Rice Husk	10	3	1200	1.0	28.0	-	-	-	-	
	Rice Offal (Parboiled)	10	3.5	1200	3.0	36	0.2	0.07	0.16		
	Rice Offal (Un-Parboiled)	10	5.5	1300	3.5	30	0.2	0.07	0.15		
	Brewers Dried Grains	10	18	1980	5.00	15	0.90	0.40	0.20	0.16	
Corn Cobs	11	2.3	528	0.4	35	-	-	0.11	-		

*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, batch number and Health certificate authorized by the country of manufacture

**Please note that Blood Meal is for Fish Feed only with Permission from the Nigerian Institute of Animal Science



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MICRO INGREDIENTS	Lysine						94				
	L Lysine										
	Lysine HCL										
	Lysine SO ₄										
	Liquid lysine										
	Methionine						100				
	L-Methionine										
	DL-Methionine										
	Liquid Methionine	12					88				
	Methionine Hydroxyl Analogue (MHA)						84	12			



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MACRO MINERALS	Bone Meal							35.00	15		
	Oyster Shell							35.00			
	Periwinkle Shell							32.0			
	Limestone							35.00			
	Dicalcium Phosphate (DCP)*							22.00	18.00		
	Copper sulphate										
	Salt										
VITAMINS& MICRO MINERALS	SEE SEPARATE TABLE NEXT PAGE										
Additives**	Enzymes										
	Anti mould										
	Emulsifier										
	Toxin binders										
	Acidifiers										
	Prebiotics										
	Probiotics										
	Synbiotics										
	Pellet Binder										

*Provide a brief write-up on process of production stating difference from rock phosphate

** Manufacturers to give specification



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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%
Vitamin B ₂ (Riboflavin)	Vitamin B ₂	80%
Vitamin B ₁₂	Vitamin B ₁₂	1%
Vitamin B ₆ Pyridoxine HCl	Vitamin B ₆	100%
Nicotinic Acid	Nicotinic Acid	100%
	Nicotinamide	100%
Folic Acid	Folic Acid	45%
	Folic Acid	95%
Pantothenic Acid	Calcium Pantothenate	80%
		98%
Biotin	Biotin	2% & 5%
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%
	Silica carrier	50%
	Corn cob carrier	70%
MICRO MINERALS		
Iodine	Potassium Iodide	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	Silica	
YOLK COLORANT	Caropyhll	
	Lucantin	
ORGANIC ACID	Formic Acid	
	Butyric Acid	
	Propionic Acid	
	Acetic Acid	

*State process of production by explosion. CuSO_4 used in premixes is feed-grade

**Potency of Organic Mineral to be stated