Code: MFS-ESP-CAL-04

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TECHNICAL SPECIFICATION ZOOTECHNICAL FLOUR

		1. PRODU	JCT DESCRIPTIO	N		
Technical name:	Zootechnical corn flour					
Trade name:		-				
Composition:		By-product obtained during the separation of the corn pericarp and germ.				
Classification:		Raw material for animal consumption				
Recommended use to product	for the	For use in animal feed				
		2. PHYSICAL AND C	HEMICAL CHAR	ACTERISTICS		
PARAMETER		UNIT OF MEAS	URE	MINIMUM	MAXIMUM	
Humidity		%		-	13	
Density		g/L		350	550	
Protein		%		8	-	
Acid Detergent Fiber (ADF)		%		5	-	
Neutral Detergent Fiber (NDF)) %		24	-	
Fat		%		-	6,5	
Minerals or ashes		%		-	3	
Foreign material		%		-	1	
Pest		-		Free of live pests		
		3. GRANULON	METRY SPECIFIC	ATION		
PARAMETER		UNIT OF MEASU	RE	MINIMUM	MAXIMUM	
Retained on tyler 10 screen		%		-	15	
		4. SENSOR	Y CHARACTERIS	TICS		
PARAMETER		SPECIFICATION				
	Cream to light yellow powder, depending on the corn source					
	Free of strange and/or chemical odors					
Appearance	Free of w	hole grain or husk				
		5. MICROBIOLO				
PARAMETER	UN	IIT OF MEASURE	MINI	мим	MAXIMUM	
Coliforms		CFU/g		-	100	
Escherichia coli	CFU/g			N = -+1	10	
Salmonella	CFU/g			Negative		

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6.	NUTRITIONAL INFORMAT	ION FOR ANIMALS	
PARAMETER	UNIT OF MEASURE	MINIMUM	MAXIMUM
NUTRIENT			
Total Digestible Nutrients	%	75	81
Protein	%	8	-
Broiler Metabolizable Energy	kcal/kg	3120	3320
Metabolizable energy pigs	kcal/kg	3660	3860
Net Energy Gain (bovine)	kcal/kg	2060	2260
Net Energy Gain (lactating cattle)	kcal/kg	1760	1980
FIBER			
Detergent Neutral (FND)	%	24	-
Detergent Acid (FAD)	%	5	-
AMINO ACIDS			
Lysine	%	0,35	0,45
Methionine	%	0,17	0,25
Tryptophan	%	0,08	0,12
MINERALS			
Calcium	%	0,03	0,07
Phosphorus	%	0,45	0,65
Iron	mg/kg	57	77
Zinc	mg/kg	20	40
	7. FOOD SAFETY STA	ANDARDS*	
PARAMETER	UNIT OF MEASURE	MINIMUM	MAXIMUM
MYCOTOXINS			
Aflatoxins	μg/kg	-	20
Vomitoxin	μg/kg	-	4000
Fumonisin	μg/kg	-	4000
Ochratoxin	μg/kg	-	100
Zeralenone	μg/kg	-	350
T-2 Toxin	μg/kg	-	100
PESTICIDES			
esticide residues mg/kg Must comply with the maximum tolerable (MRL, mg/kg) of the Codex Alimentarius f			

7. EXPECTED SHELF LIFE AND STORAGE CONDITIONS Being a dry product, it maintains its characteristics as long as it is stored in its original closed packaging, in a cool and dry place, free from moisture, dust, insects, rodents, and strange odors. The shelf life of this product is yet to be determined.

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8. PRODUCT LABELING FOR TRACEABILITY

The information on the product label must ensure its traceability. The labeling of this product is yet to be determined, but will include information such as: batch, production and expiration dates, net content, and composition.

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9. PACKAGING, PACKING, AND DISTRIBUTION METHOD Presentations: Bulk or in 25 or 50 kg bags.

The packaging and packing of the product, whether in bags or in bulk presentation, must align with industrial safety considerations and good manufacturing practices. The transportation and distribution method must ensure the integrity and safety of the product.

The packaging, packing, and distribution method of this product are yet to be determined.

10. HISTORY OF CHANGES							
VERSION NUMBER	CHANGE DETAILS	AUTHOR	DATE				
1	Initial Creation	Betzabeth Ramírez	07/03/2024				

Prepared by:			
Betzabeth Ramírez	Reviewed by:	Approval date:	Last review date:
	Julio Araque	07/03/2024	07/03/2024



