TIANJIN HUGE ROC ENTERPRISES CO., LTD. 1806, Huijin Centre, 65 Dagu Beilu, Heping District, Tianjin, China

TECHNICAL DATA SHEET

MSG Residue Premium

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1. Product Specifications

The following specifications define the product requirements. They are not batch-specific analytical results.

Parameter	Specification
Appearance	Yellow-brown or dark brown; uniform colour; granules or powder; free from mould, caking and insect infestation.
Odour	Characteristic odour; free from off-odours.
Moisture	<= 10%
Crude ash	<= 6%
Crude protein	>= 70%
Aflatoxin B1	<= 10 ppb
Zearalenone	<= 0.5 ppm
Deoxynivalenol	<= 3 ppm
Salmonella	Not detected
Packaging quality	Packaging intact and securely sealed.

Product Information

Supplied by TIANJIN HUGE ROC ENTERPRISES CO., LTD.. Batch identification and net weight are specified in the relevant shipment documents.

Units: microgram/kg is equivalent to ppb on a mass basis. Values listed as reference data describe sample characteristics and are not a guarantee for every shipment.

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2. Amino Acid Profile

Amino Acid	Content (%)	Amino Acid	Content (%)
Aspartic acid	5.09	Isoleucine	2.87
Threonine	8.08	Leucine	3.97
Serine	2.12	Tyrosine	1.55
Glutamic acid	10.10	Phenylalanine	2.37
Glycine	3.04	Lysine	2.30
Alanine	4.64	Histidine	1.17
Valine	3.20	Arginine	3.04
Proline	3.08	Cystine	0.59
Methionine	0.76	Tryptophan	0.48
Total 18 amino acids	58.45	-	-

Amino acid values are reference analytical data. LOQ, where shown, means limit of quantitation. A dash indicates that a value is not specified.

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3. Additional Reference Data

Test Item	Unit	Specified Value	Value Type	Referenced Method
Moisture content	%	<= 4.0	Typical	ASTM E203
Crude protein (N x 6.25)	%	>= 78.0	Measured	ASTM D3179
Total ash content	%	<= 5.0	Typical	ASTM D3174
Bulk density	g/L	620 +/- 30	Reference	ASTM E727
pH (10% aqueous solution)	-	5.5-7.0	Measured range	ASTM E70
Particle size (through 80 mesh)	%	>= 95	Typical	ASTM C136

Parameter	Reference Result	Method
Arsenic (As)	0.118 mg/kg	EN 15517
Lead (Pb)	Not detected (LOQ 0.003 mg/kg)	EN 15550
Chromium (Cr)	1.25 mg/kg	EN 15550

Analyte Group	Reported Result	Limit of Quantification
HCH isomers (alpha, beta, gamma, delta)	Not detected	1-2 microgram/kg
DDT isomers (p,p'-DDE; o,p'-DDT; p,p'-DDD; p,p'-DDT)	Not detected	1-2 microgram/kg
Hexachlorobenzene	Not detected	0.010 mg/kg

Document Use

This Technical Data Sheet provides product specifications and reference analytical information for commercial evaluation. It is not a batch-specific certificate or a regulatory approval. Suitability for the intended application and destination-market requirements should be confirmed before use.