

Analytical Report

Paya Amin Mehr Co. Ltd. (PAM Co.) (43076), Teheran, Iran

Description: 96-1095 Mahshd Yazd/Corn gluten

Material: Corn Gluten Meal

Lab code: NW17-0605307-001

Date of delivery: 30 August 2017

Date of release: 30 August 2017

Crude protein (%)*: 64.08

Crude protein (% as is): 69.20

Dry matter (%): 95.03

Results of amino acid analysis

Parameter	Content (% as is)	Content (%)*	Content (% in CP)
Methionine	1.545	1.43	2.232
Cystine	1.129	1.045	1.631
Methionine + Cystine **	2.717	2.516	3.926
Lysine	1.1	1.018	1.589
Threonine	2.275	2.107	3.288
Tryptophan	0.365	0.338	0.527
Arginine	2.14	1.982	3.093
Isoleucine	2.798	2.591	4.043
Leucine	11.361	10.521	16.418
Valine	3.117	2.887	4.505
Histidine	1.364	1.263	1.972
Phenylalanine	4.313	3.994	6.233
Glycine	1.807	1.674	2.612
Serine	3.547	3.284	5.125
Proline	6.337	5.868	9.158
Alanine	6.036	5.59	8.723
Aspartic acid	4.18	3.871	6.041

(1/2)

* DMS: Figures standardized to a dry matter content of 88.00% , CP = Crude protein, calibration based on Dumas combustion method (CP factor= 6.25)

** estimated with separate calibration equation

NIRS calibration equation: agCORN11_6438



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Parameter	Content (% as is)	Content (%)*	Content (% in CP)
Glutamic acid	14.805	13.71	21.395
NH3	2.036	1.885	2.942
Total including NH3 **	69.482	64.342	100.408
Total without NH3 **	67.541	62.545	97.604

(2/2)

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Standardized ileal digestible amino acid content (Pig)

Parameter	Content (% as is)	Content (%)*
Methionine	1.452	1.345
Cystine	0.982	0.91
Methionine + Cystine **	2.472	2.289
Lysine	1.001	0.927
Threonine	2.025	1.875
Tryptophan	0.277	0.257
Arginine	2.012	1.863
Isoleucine	2.602	2.41
Leucine	10.679	9.889
Valine	2.868	2.656
Histidine	1.269	1.175
Phenylalanine	4.055	3.755

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Standardized ileal digestible amino acid content (Broiler)

Parameter	Content (% as is)	Content (%)*
Methionine	1.406	1.302
Cystine	0.926	0.857
Methionine + Cystine **	2.363	2.189
Lysine	0.88	0.815
Threonine	1.888	1.749
Tryptophan	0.241	0.223
Arginine	1.905	1.764
Isoleucine	2.49	2.306
Leucine	10.566	9.784
Valine	2.712	2.512
Histidine	1.201	1.112
Phenylalanine	3.925	3.635
Glycine	1.392	1.289
Serine	3.192	2.956
Proline	5.83	5.399
Alanine	5.553	5.142
Aspartic acid	3.553	3.29
Glutamic acid	13.621	12.613

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