

Analytical Report

Evonik India Private Limited (20060), India

Description: DDGS, Globus Spirits Ltd.

Lab code: IN17-0000364-001

Date of delivery: 03 May 2017

Date of release: 10 May 2017

Crude protein (%)*: 44.93

Crude protein (% as is): 44.52

Dry matter (%): 87.20

Results of amino acid analysis

Parameter	Content (%)*	AA (%) in CP	AA (%) AS IS
Methionine	1.090	2.427	1.080
Cystine	0.841	1.872	0.833
Methionine + Cystine **	1.950	4.340	1.932
Lysine	1.367	3.042	1.354
Threonine	1.620	3.605	1.605
Tryptophan	0.562	1.251	0.557
Arginine	2.983	6.638	2.955
Isoleucine	1.870	4.161	1.853
Leucine	3.484	7.754	3.452
Valine	2.479	5.518	2.457
Histidine	0.942	2.096	0.933
Phenylalanine	2.260	5.029	2.239
Glycine	1.989	4.426	1.970
Serine	2.114	4.704	2.094
Proline	1.997	4.444	1.979
Alanine	2.484	5.529	2.462
Aspartic acid	3.826	8.514	3.791
Glutamic acid	7.377	16.417	7.309
NH3	0.994	2.213	0.985
Total including NH3**	40.298	89.685	39.930
Total without NH3**	39.096	87.010	38.739

AA = Amino acid, CP = Crude protein
NIRS calibration equation: agDIST16_16457_v7

* Figures standardized to a dry matter content of 88%

** estimated with separate calibration equation



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