

Analytical Report

Evonik India Private Limited (20060), India

Description: DDGS, Dr. Shabbir Ahmed Khan, C/o Globus Spirit Ltd.

Lab code: SG14-0000527-001

Date of delivery: 16 December 2014

Date of release: 26 December 2014

Crude protein (%)*: 46.38

Crude protein (% as is): 47.76

Dry matter (%): 90.61

Results of amino acid analysis / Total contents after hydrolysis of protein

Amino acid	Content (%)*	AA (%) in CP	Content (% as is)
Methionine	1.047	2.257	1.078
Cystine	0.893	1.926	0.920
Methionine + Cystine	1.940	4.183	1.998
Lysine	1.193	2.571	1.228
Threonine	1.548	3.338	1.594
Arginine	3.211	6.922	3.306
Isoleucine	1.826	3.936	1.880
Leucine	3.496	7.538	3.600
Valine	2.561	5.521	2.637
Histidine	0.954	2.056	0.982
Phenylalanine	2.267	4.887	2.334
Glycine	1.905	4.108	1.962
Serine	2.095	4.516	2.157
Proline	1.966	4.238	2.024
Alanine	2.499	5.387	2.573
Aspartic acid	3.800	8.193	3.913
Glutamic acid	7.231	15.588	7.445
Total (without NH ₃)	38.491	82.984	39.633
Ammonia	1.039	2.240	1.070
Total	39.531	85.224	40.703

* Figures standardized to a dry matter content of 88%

AA = Amino acid, CP = Crude protein



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Dr. I. Reimann

