

Certificate of Analysis



Certificate Number: 19-000606

Report Date: January 09, 2019

Client:

ABSOLUTE ENERGY
1372 STATE LINE ROAD

IA 50472

UNITED STATES

Sample Information:

Page 1 of 1

SGS Sample Identification: MW19-00058.001

Client Sample Identification: DDGS - WEEK 50

Received: January 02, 2019

Sample/Product Type: Distillers dried grains with solubles

Analysis	Result	Units	L.O.Q.	Method
Calcium	0.01	%	0.0028	AOAC 968.08 (ICP)
Copper	4.41	PPM	2.7889	AOAC 968.08 (ICP)
Iron	53.69	PPM	6.8889	AOAC 968.08 (ICP)
Potassium	1.16	%	0.0694	AOAC 968.08 (ICP)
Magnesium	0.28	%	0.0209	AOAC 968.08 (ICP)
Manganese	10.72	PPM	0.9778	AOAC 968.08 (ICP)
Sodium	0.23	%	0.014	AOAC 968.08 (ICP)
Phosphorus	0.86	%	0.0554	AOAC 968.08 (ICP)
Sulfur	0.52	%	0.021	AOAC 968.08 (ICP)
Zinc	46.73	PPM	5.5556	AOAC 968.08 (ICP)
Aflatoxin B1	N.D.	PPB	1	LC/MS/MS
Aflatoxin B2	N.D.	PPB	1	LC/MS/MS
Aflatoxin G1	N.D.	PPB	1	LC/MS/MS
Aflatoxin G2	N.D.	PPB	1	LC/MS/MS
Aflatoxin Summation	N.D.	PPB	1	LC/MS/MS
DON (Vomitoxin)	3.43	PPM	0.1	LC/MS/MS

Analysis	As Received	On Dry Matter	Units	Method
Starch Content	1.388	1.574	g/100g	AOAC996.11
Drymatter	88.18	--	%	NFTA 2.2.2.5
Moisture	11.82	--	%	NFTA 2.2.2.5
Crude ash content	4.699	5.329	%	AOAC 942.05
Crude Fat	8.83	10.01	%	AOAC 2003.06 (Petroleum Ether)
Crude Protein	32.31	36.64	%	AOAC 990.03

Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and/or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

The sample condition upon arrival was acceptable for testing unless otherwise noted.

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Jacob Swanson
Analytical Chemistry Supervisor
Start/End Analysis: 01/02/2019 - 01/09/2019

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