

Certificate of Analysis



Certificate Number: 19-001089

Report Date: January 17, 2019

Client:

ABSOLUTE ENERGY
1372 STATE LINE ROAD

IA 50472

UNITED STATES

Sample Information:

SGS Sample Identification: MW19-00395.001
Client Sample Identification: WET: MDDG 1.7.2019
Received: January 10, 2019
Sample/Product Type: Modified Distiller Dried Grains

Analysis	Result	Units	L.O.Q.	Method
Calcium	0.01	%	0.0028	AOAC 968.08 (ICP)
Copper	N.D.	PPM	2.7889	AOAC 968.08 (ICP)
Iron	31.61	PPM	6.8889	AOAC 968.08 (ICP)
Potassium	0.54	%	0.0694	AOAC 968.08 (ICP)
Magnesium	0.14	%	0.0209	AOAC 968.08 (ICP)
Manganese	5.47	PPM	0.9778	AOAC 968.08 (ICP)
Sodium	0.10	%	0.014	AOAC 968.08 (ICP)
Phosphorus	0.45	%	0.0554	AOAC 968.08 (ICP)
Sulfur	0.26	%	0.021	AOAC 968.08 (ICP)
Zinc	24.43	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)	>0.03	PPM	0.0001	LC/MS/MS
Fumonisin B1	>0.02	PPM	0.0001	LC/MS/MS
Fumonisin B2	N.D.	PPM	0.0001	LC/MS/MS
Ochratoxin	N.D.	PPB	1	LC/MS/MS
T2 toxin	N.D.	PPB	10	LC/MS/MS
Zearalenone	41.5	PPB	20	LC/MS/MS

Analysis	As Received	On Dry Matter	Units	Method
Drymatter	49.75	--	%	NFTA 2.2.2.5
Moisture	50.25	--	%	NFTA 2.2.2.5
Crude Fiber	4.49	9.03	%	AOAC 962.09
Crude ash content	2.251	4.525	%	AOAC 942.05
NDF	19.75	--	%	ANKOM Technology Method 6
Crude Fat	5.33	10.71	%	AOAC 2003.06 (Petroleum Ether)
Crude Protein	15.34	30.83	%	AOAC 990.03

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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Analysis	As Received	On Dry Matter	Units	Method
Acid detergent fiber	5.61	11.28	%	Calculation
Digestable Energy	0.90	1.81	Mcal/lb	Calculation
Metabolizable Energy	0.78	--	Mcal/lb	Calculation
Net Energy Gain	0.33	0.66	Mcal/lb	Calculation
Net Energy Lactation	0.44	0.89	Mcal/lb	Calculation
Net Energy Maintenance	0.49	0.99	Mcal/lb	Calculation
Total digestable nutrients	42.27	84.95	%	Calculation
Starch Content	0.943	1.896	g/100g	AOAC996.11

Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected

Jacob Swanson

Analytical Chemistry Supervisor

Start/End Analysis: 01/10/2019 - 01/16/2019

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