

Certificate of Analysis



Certificate Number: 19-003728

Report Date: March 15, 2019

Client:

ABSOLUTE ENERGY
1372 STATE LINE ROAD

IA 50472

UNITED STATES

Sample Information:

SGS Sample Identification: MW19-02027.001
Client Sample Identification: WET: MDDG MARCH 5, 2019
Received: March 08, 2019
Sample/Product Type: Modified Distiller Dried Grains

The sample condition upon arrival was acceptable for testing.

Analysis	Result	Units	L.O.Q.	Method
Calcium	0.01	%	0.0028	ANA008CHEM
Copper	N.D.	PPM	2.7889	ANA008CHEM
Iron	32.37	PPM	6.8889	ANA008CHEM
Potassium	0.56	%	0.0694	ANA008CHEM
Magnesium	0.15	%	0.0209	ANA008CHEM
Manganese	5.52	PPM	0.9778	ANA008CHEM
Sodium	0.13	%	0.014	ANA008CHEM
Phosphorus	0.44	%	0.0554	ANA008CHEM
Sulfur	0.30	%	0.021	ANA008CHEM
Zinc	25.31	PPM	5.5556	ANA008CHEM
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)	0.96	PPM	0.1	LC/MS/MS
Fumonisin B1	0.42	PPM	0.1	LC/MS/MS
Fumonisin B2	N.D.	PPM	0.1	LC/MS/MS
Ochratoxin	N.D.	PPB	1	LC/MS/MS
T2 toxin	N.D.	PPB	10	LC/MS/MS
Zearalenone	150.2	PPB	20	LC/MS/MS

Analysis	As Received	On Dry Matter	Units	Method
Drymatter	49.70	--	%	NFTA 2.2.2.5
Moisture	50.30	--	%	NFTA 2.2.2.5
Crude Fiber	4.11	8.27	%	AOAC 962.09
Crude ash content	2.274	4.575	%	AOAC 942.05
NDF	20.51	41.26	%	ANKOM Technology Method 6
Crude Fat	5.06	10.18	%	AOAC 2003.06 (Petroleum Ether)
Crude Protein	15.69	31.57	%	AOAC 990.03
Acid detergent fiber	5.14	10.34	%	Calculation

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.

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Analysis	As Received	On Dry Matter	Units	Method
Digestable Energy	0.90	1.81	Mcal/lb	Calculation
Metabolizable Energy	0.78	--	Mcal/lb	Calculation
Net Energy Gain	0.33	0.67	Mcal/lb	Calculation
Net Energy Lactation	0.45	0.90	Mcal/lb	Calculation
Net Energy Maintenance	0.50	1.00	Mcal/lb	Calculation
Total digestable nutrients	42.58	85.67	%	Calculation
Starch Content	0.767	1.543	g/100g	Calculation
				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: 03/08/2019 - 03/14/2019

Method References: ANA008CHEM: AOAC 2011.14; EN17053:2018; USP <2232>; EPA 200.7

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