

Certificate of Analysis



Certificate Number: 17-032804

Client:

Report Date: April 24, 2017

ABSOLUTE ENERGY
1372 STATE LINE RD
SAINT ANSGAR IA 50472
UNITED STATES

Sample Information:

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SGS Sample Identification: MW17-05192.001
Client Sample Identification: WEEK 14
Received: April 13, 2017
Sample/Product Type: Distillers dried grains with solubles

Analysis	Result	Units	L.O.Q.	Method
Hunter L Score	58.55		N/A	ColorFlex User's Guide, Ver. 2.5
Calcium content as received	0.02	%(m/m)	0.0124	AOAC 968.08 (ICP)
Copper content as received	4.40	PPM	0.081	AOAC 968.08 (ICP)
Iron content as received	56.14	PPM	0.2428	AOAC 968.08 (ICP)
Potassium content as received	1.15	%(m/m)	0.0044	AOAC 968.08 (ICP)
Magnesium content as received	0.31	%(m/m)	0.0029	AOAC 968.08 (ICP)
Manganese content as received	11.61	PPM	0.0917	AOAC 968.08 (ICP)
Sodium content as received	0.24	%(m/m)	0.0015	AOAC 968.08 (ICP)
Phosphorous content as received	0.87	%(m/m)	0.0063	AOAC 968.08 (ICP)
Sulfur content as received	0.54	%(m/m)	0.0177	AOAC 968.08 (ICP)
Zinc content as received	43.42	PPM	1.4846	AOAC 968.08 (ICP)
Vomitoxin (DON)	2.790	PPM	0.24	LC/MSMS

Analysis	As Received	On Dry Matter	Units	Method
Drymatter content	89.03	--	%(m/m)	NFTA 2.2.2.5 (105C 3hrs)
Moisture	10.97	--	%(m/m)	NFTA 2.2.2.5 (105C 3hrs)
Crude Ash	4.662	5.236	%(m/m)	AOAC 942.05
Crude Fiber	7.55	8.48	%(m/m)	AOAC 962.09
NDF	27.98	--	%	ANKOM Technology Method 6
Crude Fat	7.11	7.99	%(m/m)	AOAC 2003.06 (Petroleum ether)
Acid detergent fiber	9.44	10.61	%(m/m)	Calculation
Digestible Energy	1.61	1.81	Mcal/lb	Calculation
Metabolizable Energy	1.34	--	Mcal/lb	Calculation
Net Energy Gain	0.59	0.67	Mcal/lb	Calculation
Net Energy Lactation	0.80	0.90	Mcal/lb	Calculation
Net Energy Maintenance	0.89	0.99	Mcal/lb	Calculation
Total digestible nutrients	76.09	85.47	%(m/m)	Calculation
Crude Protein	26.84	30.15	%(m/m)	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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Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected

A handwritten signature in blue ink that reads 'Angela Carlson'.

Angela Carlson
Analytical Lab Manager

Start/End Analysis: 04/13/2017 - 04/24/2017

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