

Certificate of Analysis



Certificate Number: 18-015357

Report Date: September 21, 2018

Client:

ABSOLUTE ENERGY

1372 STATE LINE RD
SAINT ANSGAR IA 50472
UNITED STATES

Sample Information:

SGS Sample Identification: MW18-10093.001
Client Sample Identification: CHS WEEK 35
Received: September 14, 2018
Sample/Product Type: Distillers dried grains with solubles

Analysis	Result	Units	L.O.Q.	Method
Hunter L Color	57.73		N/A	ColorFlex User's Guide, Ver. 2.5
Calcium	0.02	%(m/m)	0.0028	AOAC 968.08 (ICP)
Copper	4.89	PPM	2.7889	AOAC 968.08 (ICP)
Iron	59.51	PPM	6.8889	AOAC 968.08 (ICP)
Potassium	1.14	%(m/m)	0.0694	AOAC 968.08 (ICP)
Magnesium	0.33	%(m/m)	0.0209	AOAC 968.08 (ICP)
Manganese	11.05	PPM	0.9778	AOAC 968.08 (ICP)
Sodium	0.25	%(m/m)	0.014	AOAC 968.08 (ICP)
Phosphorus	0.89	%(m/m)	0.0554	AOAC 968.08 (ICP)
Sulfur	0.53	%(m/m)	0.021	AOAC 968.08 (ICP)
Zinc	48.10	PPM	5.5556	AOAC 968.08 (ICP)
Vomitoxin (DON)	1.410	PPM	0.5	Neogen Veratox (ELISA)

Analysis	As Received	On Dry Matter	Units	Method
Drymatter	89.55	--	%(m/m)	NFTA 2.2.2.5
Moisture	10.45	--	%(m/m)	NFTA 2.2.2.5
Crude ash content	4.735	5.288	%(m/m)	AOAC 942.05
Crude Fiber	7.83	8.74	%(m/m)	AOAC 962.09
NDF	31.43	--	%	ANKOM Technology Method 6
Crude Fat	8.22	9.18	%(m/m)	AOAC 2003.06 (Petroleum Ether)
Acid detergent fiber	9.79	10.93	%(m/m)	Calculation
Digestable Energy	1.62	1.81	Mcal/lb	Calculation
Metabolizable Energy	1.37	--	Mcal/lb	Calculation
Net Energy Gain	0.59	0.66	Mcal/lb	Calculation
Net Energy Lactation	0.80	0.90	Mcal/lb	Calculation
Net Energy Maintenance	0.89	0.99	Mcal/lb	Calculation
Total digestable nutrients	76.31	85.22	%(m/m)	Calculation
Crude Protein	26.93	30.08	%(m/m)	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.

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Jacob Swanson
Analytical Chemistry Supervisor
Start/End Analysis: 09/14/2018 - 09/20/2018

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