

Certificate of Analysis



Certificate Number: 22-002985

Report Date: March 21, 2022

Client:

ABSOLUTE ENERGY

1372 STATE LINE RD
SAINT ANSGAR IA 50472
UNITED STATES

Sample Information:

SGS Sample Identification: MW22-01936.001
Client Sample Identification: CHS WEEK 9
Received: March 10, 2022
Sample/Product Type: Distillers dried grains with solubles
The sample condition upon arrival was acceptable for testing.

Analysis	Result	Units	L.O.Q.	Method
Calcium	0.03	%	0.0028	ANA008CHEM
Copper	5.54	PPM	2.7889	ANA008CHEM
Iron	66.09	PPM	6.8889	ANA008CHEM
Potassium	1.17	%	0.0694	ANA008CHEM
Magnesium	0.35	%	0.0209	ANA008CHEM
Manganese	13.30	PPM	0.9778	ANA008CHEM
Sodium	0.28	%	0.014	ANA008CHEM
Phosphorus	0.96	%	0.0554	ANA008CHEM
Sulfur	0.61	%	0.021	ANA008CHEM
Zinc	53.03	PPM	5.5556	ANA008CHEM
DON (Vomitoxin)	1.43	PPM	0.1	ANA012CHEM
Hunter L Color	55.53		N/A	Hunter Labs Colorflex EZ

Analysis	As Received	On Dry Matter	Units	Method
Drymatter	88.70	--	%	NFTA 2.2.2.5
Moisture	11.30	--	%	NFTA 2.2.2.5
Crude ash content	4.849	5.467	%	AOAC 942.05 (mod)
Crude Fiber	7.45	8.40	%	ANA032CHEM
NDF	27.84	31.39	%	ANKOM Technology Method 6
Crude Fat	6.81	7.68	%	AOAC 2003.06 (Petroleum Ether)
Acid detergent fiber	9.31	10.50	%	Calculation
Digestable Energy	1.61	1.81	Mcal/lb	Calculation
Metabolizable Energy	1.33	--	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	0.88	1.00	Mcal/lb	Calculation
Total digestable nutrients	75.88	85.55	%	Calculation
Crude Protein	29.69	33.48	%	ANA030CHEM

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.

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Certificate of Analysis



Certificate Number: 22-002985

Report Date: March 21, 2022

Client:

ABSOLUTE ENERGY

1372 STATE LINE RD

SAINT ANSGAR

IA

50472

UNITED STATES

A blue ink signature of Dustin Edmison, written in a cursive style.

Dustin Edmison
Laboratory Manager

Start/End Analysis: 03/10/2022 - 03/21/2022

Method References:

ANA008CHEM: AOAC 2011.14; EN17053:2018; USP <2232>; EPA 200.7; AOAC 985.01

ANA032CHEM: AOAC 962.09,

AOCS Ba 6a-05

ANA030CHEM: AACC 46-30.01, AOAC 992.15, 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.

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS North America

1405 32nd Ave,

Brookings, SD 57006

t (877) 692-7611

f (605) 692-5908

www.us.sgs.com/agriculture