

# Certificate of Analysis



Certificate Number: 20-015157

Report Date: December 15, 2020

**Client:**

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

**Sample Information:**

**SGS Sample Identification:** MW20-09355.001  
**Client Sample Identification:** WET: 12/01/20 JL MDDG  
**Received:** December 03, 2020  
**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	32.60	PPM	6.8889	ANA008CHEM
Potassium	0.47	%	0.0694	ANA008CHEM
Magnesium	0.15	%	0.0209	ANA008CHEM
Manganese	5.45	PPM	0.9778	ANA008CHEM
Sodium	0.10	%	0.014	ANA008CHEM
Phosphorus	0.41	%	0.0554	ANA008CHEM
Sulfur	0.29	%	0.021	ANA008CHEM
Zinc	26.14	PPM	5.5556	ANA008CHEM
Aflatoxin B1	N.D.	PPB	1	ANA012CHEM
Aflatoxin B2	N.D.	PPB	1	ANA012CHEM
Aflatoxin G1	N.D.	PPB	1	ANA012CHEM
Aflatoxin G2	N.D.	PPB	1	ANA012CHEM
Aflatoxin Summation	N.D.	PPB	1	ANA012CHEM
DON (Vomitoxin)	0.34	PPM	0.1	ANA012CHEM
Fumonisin B1	0.33	PPM	0.1	ANA012CHEM
Fumonisin B2	N.D.	PPM	0.1	ANA012CHEM
Ochratoxin	N.D.	PPB	1	ANA012CHEM
T2 toxin	N.D.	PPB	10	ANA012CHEM
Zearalenone	25.0	PPB	20	ANA012CHEM

Analysis	As Received	On Dry Matter	Units	Method
Drymatter	49.34	--	%	NFTA 2.2.2.5
Moisture	50.66	--	%	NFTA 2.2.2.5
Crude Fiber	4.67	9.47	%	ANA032CHEM
Crude ash content	2.079	4.212	%	AOAC 942.05 (mod)
NDF	18.78	38.05	%	ANKOM Technology Method 6
Crude Fat	4.21	8.53	%	AOAC 2003.06 (Petroleum Ether)
Crude Protein	14.56	29.52	%	ANA030CHEM

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
Acid detergent fiber	5.84	11.83	%	Calculation
Digestible Energy	0.89	1.80	Mcal/lb	Calculation
Metabolizable Energy	0.75	--	Mcal/lb	Calculation
Net Energy Gain	0.32	0.66	Mcal/lb	Calculation
Net Energy Lactation	0.44	0.89	Mcal/lb	Calculation
Net Energy Maintenance	0.48	0.98	Mcal/lb	Calculation
Total digestible nutrients	41.71	84.54	%	Calculation
Starch Content	1.450	2.938	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

**N.A.:** Not Applicable

**N.D.:** Not Detected

Dustin Edmison  
Laboratory Manager

**Start/End Analysis:** 12/03/2020 - 12/14/2020

**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

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