

# Certificate of Analysis



Certificate Number: 20-015644  
Report Date: December 29, 2020

**Client:**

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

**Sample Information:**

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**SGS Sample Identification:** MW20-09720.001  
**Client Sample Identification:** CHS WEEK 49  
**Received:** December 16, 2020  
**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	0.02	%	0.0028	ANA008CHEM
Copper	4.85	PPM	2.7889	ANA008CHEM
Iron	61.56	PPM	6.8889	ANA008CHEM
Potassium	1.14	%	0.0694	ANA008CHEM
Magnesium	0.35	%	0.0209	ANA008CHEM
Manganese	12.73	PPM	0.9778	ANA008CHEM
Sodium	0.26	%	0.014	ANA008CHEM
Phosphorus	0.96	%	0.0554	ANA008CHEM
Sulfur	0.62	%	0.021	ANA008CHEM
Zinc	50.55	PPM	5.5556	ANA008CHEM
DON (Vomitoxin)	0.82	PPM	0.1	ANA012CHEM
Hunter L Color	55.38		N/A	Hunter Labs Colorflex EZ

Analysis	As Received	On Dry Matter	Units	Method
Drymatter	88.86	--	%	NFTA 2.2.2.5
Moisture	11.14	--	%	NFTA 2.2.2.5
Crude ash content	4.830	5.435	%	AOAC 942.05 (mod)
Crude Fiber	8.07	9.08	%	ANA032CHEM
NDF	28.15	--	%	ANKOM Technology Method 6
Crude Fat	7.20	8.11	%	AOAC 2003.06 (Petroleum Ether)
Acid detergent fiber	10.08	11.35	%	Calculation
Digestable Energy	1.60	1.80	Mcal/lb	Calculation
Metabolizable Energy	1.33	--	Mcal/lb	Calculation
Net Energy Gain	0.59	0.66	Mcal/lb	Calculation
Net Energy Lactation	0.79	0.89	Mcal/lb	Calculation
Net Energy Maintenance	0.88	0.99	Mcal/lb	Calculation
Total digestable nutrients	75.45	84.91	%	Calculation
Crude Protein	28.44	32.00	%	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.

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Dustin Edmison  
Laboratory Manager

Start/End Analysis: 12/16/2020 - 12/29/2020

**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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