

# Certificate of Analysis



Certificate Number: 18-002809

Report Date: February 19, 2018

**Client:**

**ABSOLUTE ENERGY**

1372 STATE LINE RD  
SAINT ANSGAR IA 50472  
UNITED STATES

**Sample Information:**

**SGS Sample Identification:** MW18-01725.001  
**Client Sample Identification:** CHS WEEK 5  
**Received:** February 14, 2018  
**Sample/Product Type:** Distillers dried grains with solubles

Analysis	Result	Units	L.O.Q.	Method
Hunter L Color	59.45		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	4.70	PPM	0.081	AOAC 968.08 (ICP)
Iron content as received	63.09	PPM	0.2428	AOAC 968.08 (ICP)
Potassium content as received	1.17	%(m/m)	0.0044	AOAC 968.08 (ICP)
Magnesium content as received	0.35	%(m/m)	0.0029	AOAC 968.08 (ICP)
Manganese content as received	11.87	PPM	0.0917	AOAC 968.08 (ICP)
Sodium content as received	0.25	%(m/m)	0.0015	AOAC 968.08 (ICP)
Phosphorous content as received	0.94	%(m/m)	0.0063	AOAC 968.08 (ICP)
Sulfur content as received	0.65	%(m/m)	0.0177	AOAC 968.08 (ICP)
Zinc content as received	47.41	PPM	1.4846	AOAC 968.08 (ICP)
Vomitoxin (DON)	1.552	PPM	0.24	Neogen Veratox (ELISA)

Analysis	As Received	On Dry Matter	Units	Method
Drymatter content	88.89	--	%(m/m)	NFTA 2.2.2.5
Moisture content	11.11	--	%(m/m)	NFTA 2.2.2.5
Crude ash content	4.681	5.266	%(m/m)	AOAC 942.05
Crude Fiber	7.00	7.88	%(m/m)	AOAC 962.09
NDF	26.64	--	%	ANKOM Technology Method 6
Crude Fat	9.24	10.39	%(m/m)	AOAC 2003.06 (Petroleum ether)
Acid detergent fiber	8.75	9.85	%(m/m)	Calculation
Digestable Energy	1.62	1.82	Mcal/lb	Calculation
Metabolizable Energy	1.40	--	Mcal/lb	Calculation
Net Energy Gain	0.60	0.68	Mcal/lb	Calculation
Net Energy Lactation	0.80	0.90	Mcal/lb	Calculation
Net Energy Maintenance	0.89	1.00	Mcal/lb	Calculation
Total digestable nutrients	76.49	86.05	%(m/m)	Calculation
Crude Protein	26.56	29.88	%(m/m)	AOAC 990.03

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The sample condition upon arrival was acceptable for testing unless otherwise noted.

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