

# Certificate of Analysis



Certificate Number: 23-011003

Report Date: November 13, 2023

**Client:**

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

**Sample Information:**

**SGS Sample Identification:** MW23-08515.001  
**Client Sample Identification:** WET: MDDG 11/2023  
**Received:** November 03, 2023  
**Sample/Product Type:** Wet Distillers Grains

The sample condition upon arrival was acceptable for testing.

| Analysis            | Result | Units | L.O.Q. | Method     |
|---------------------|--------|-------|--------|------------|
| Calcium             | 0.01   | %     | 0.0028 | ANA008CHEM |
| Copper              | 3.07   | PPM   | 2.7889 | ANA008CHEM |
| Iron                | 33.26  | PPM   | 6.8889 | ANA008CHEM |
| Potassium           | 0.50   | %     | 0.0694 | ANA008CHEM |
| Magnesium           | 0.15   | %     | 0.0209 | ANA008CHEM |
| Manganese           | 6.11   | PPM   | 0.9778 | ANA008CHEM |
| Sodium              | 0.11   | %     | 0.014  | ANA008CHEM |
| Phosphorus          | 0.42   | %     | 0.0554 | ANA008CHEM |
| Sulfur              | 0.25   | %     | 0.021  | ANA008CHEM |
| Zinc                | 28.43  | 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)     | 0.25   | PPM   | 0.1    | ANA012CHEM |
| Fumonisin B1        | 0.25   | PPM   | 0.1    | ANA012CHEM |
| Fumonisin B2        | N.D.   | PPM   | 0.1    | ANA012CHEM |
| Ochratoxin          | N.D.   | PPB   | 1      | ANA012CHEM |
| T-2 toxin           | N.D.   | PPB   | 10     | ANA012CHEM |
| Zearalenone         | N.D.   | PPB   | 20     | ANA012CHEM |

| Analysis          | As Received | On Dry Matter | Units | Method                         |
|-------------------|-------------|---------------|-------|--------------------------------|
| Drymatter         | 49.77       | --            | %     | NFTA 2.2.2.5                   |
| Moisture          | 50.23       | --            | %     | NFTA 2.2.2.5                   |
| Crude Fiber       | 4.19        | 8.42          | %     | ANA032CHEM                     |
| Crude ash content | 2.095       | 4.209         | %     | AOAC 942.05 (mod)              |
| NDF               | 21.64       | 43.47         | %     | ANKOM Technology Method 6      |
| Crude Fat         | 2.81        | 5.64          | %     | AOAC 2003.06 (Petroleum Ether) |
| Crude Protein     | 19.10       | 38.38         | %     | 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       | 5.24        | 10.53         | %       | Calculation |
| Digestible Energy          | 0.90        | 1.81          | Mcal/lb | Calculation |
| Metabolizable Energy       | 0.73        | --            | Mcal/lb | Calculation |
| Net Energy Gain            | 0.33        | 0.67          | Mcal/lb | Calculation |
| Net Energy Lactation       | 0.45        | 0.90          | Mcal/lb | Calculation |
| Net Energy Maintenance     | 0.50        | 1.00          | Mcal/lb | Calculation |
| Total digestible nutrients | 42.57       | 85.53         | %       | Calculation |
| Starch Content             | 1.329       | 2.670         | 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



Dustin Edmison  
Laboratory Manager

**Start/End Analysis:** 11/03/2023 - 11/10/2023

**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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