

# Alpha Resources, Inc. Certificate Of Analysis

## AR 2016 SOY BEAN MEAL STANDARD LOT # 11896

### DRIED BASIS VALUES

#### Feed Analysis

|               |               |
|---------------|---------------|
| % Fat         | 1.24 +/- .03  |
| % Crude Fiber | 9.3 +/- .3    |
| % Carbon      | 46.68 +/- .10 |
| % Hydrogen    | 6.34 +/- .20  |
| % Nitrogen    | 8.12 +/- .06  |

### AS BOTTLED VALUES

#### Ultimate Analysis

|            |               |
|------------|---------------|
| % Carbon   | 42.43 +/- .10 |
| % Hydrogen | 5.76 +/- .20  |
| % Nitrogen | 7.30 +/- .10  |
| % Sulfur   | .38 +/- .10   |
| % Moisture | 9.11          |

### AS BOTTLED VALUES

#### Mineral Analysis

|               |             |
|---------------|-------------|
| % Calcium     | .34 +/- .02 |
| % Magnesium   | .30 +/- .20 |
| % Phosphorous | .64 +/- .08 |

#### Mineral Analysis

|             |              |
|-------------|--------------|
| % Potassium | 2.40 +/- .15 |
| % Sodium    | <.01         |

|           |            |
|-----------|------------|
| PPM Boron | 36 +/- 4   |
| PPM Iron  | 330 +/- 35 |
| PPM Zinc  | 55 +/- 5   |

|               |            |
|---------------|------------|
| PPM Copper    | 20 +/- 4   |
| PPM Manganese | 32 +/- 3   |
| PPM Aluminum  | 220 +/- 22 |

The following procedures and standards were employed in the analysis of the above standard:

|                       |                       |                     |                   |
|-----------------------|-----------------------|---------------------|-------------------|
| Preparation.....      | AOAC 935.13A          | Total Nitrogen..... | AOAC 968.06       |
| Crude Fiber.....      | AOAC 962.09           | Crude Fat.....      | AOAC 920.39       |
| Moisture.....         | ASTM D 3173           | Sulfur.....         | ASTM D 4239 C     |
| Mineral Analysis..... | ICP/AES – AOAC 975.03 | NIST SRM.....       | 1547 Peach Leaves |

This standard was re-certified in November of 2001 and reflects the values received as a result of the re-certification process.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall alpha resources be liable for incidental or consequential damages.

This is a certified reference material (CRM) and is traceable to the above-mentioned NIST standard. For good laboratory practice, we at Alpha Resources Incorporated, recommend that all secondary standards be verified and documented prior to use.

### EXPIRATION DATE

**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE WHICH  
APPEARS ON THE BOTTLE  
CERTIFIED NOVEMBER 2001**

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