

# Alpha Resources, Inc.

## Certificate Of Analysis

AR 2016  
SOY BEAN MEAL STANDARD  
LOT # 413C

### DRIED BASIS VALUES

#### Feed Analysis

% Fat	2.11 +/- 0.15
% Crude Fiber	3.79 +/-0.56
% Sugar	(15.02)
% Sulfur	0.46+/-0.01
% Starch	(2.09)
% Nitrogen	8.40 +/- 0.11

### AS BOTTLED VALUES (REFERENCE ONLY)

#### Ultimate Analysis

% Carbon	(45.24)
% Hydrogen	(5.73)
% Nitrogen	(7.89)
% Ash	(7.45)
% Sulfur	(0.42)
% Moisture	(6.13)

**DRIED BASIS: NUMBERS IN [ ] ARE AS BOTTLED (non-dried) VALUES**

#### Mineral Analysis

% Calcium	0.33 +/- 0.04 [0.31]
% Magnesium	0.32 +/- 0.02 [0.3]
% Phosphorous	0.72 +/- 0.04 [0.68]
% Boron	0.0047+/-0.0003
% Iron	0.0146 +/- 0.003
% Zinc	0.0061 +/- 0.0002

#### Mineral Analysis

% Potassium	2.47 +/- 0.22 [2.31]
% Sodium	(0.02)
% Chlorine	(0.06)
% Copper	0.0038+/-0.0002
% Manganese	0.0039+/-0.0004
% Aluminum	0.0111 +/- 0.0004

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
Mineral Analysis.....	ICP/AES – AOAC 975.03, 968.09	Traceable to: AAFCO standards and materials traceable to NIST 1547 Peach leaves	
Nitrogen.....	EDTA		


When necessary, professional judgment is applied toward consideration of data and statistical information. The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer, Technical Manager, at Alpha Resources. The uncertainty values represent the k=1, 68% confidence limits, or one normal standard deviation. This reference was produced in accordance to ISO Guide 34-2009.

Samples for round robin testing were selected in accordance to ARI 014. The values only relate to the material certified. This bottle contains 30g of fine soy bean meal powder to be used per the test method you follow. This reference has an indefinite known shelf life unopened. Once opened the shelf life is limited to two years. Keep sealed and store under normal dry laboratory conditions.

This is a certified reference material (Working Standard) and is traceable to the above-mentioned reference standard(s). For good laboratory practice, we recommend that all secondary standards be verified and documented prior to use. 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.

**EXPIRATION DATE**  
**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING**

CERTIFIED October 23, 2013  
Technical Manager,



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