

# Alpha Resources, Inc. Certificate Of Analysis

**AR 2017  
CORN GLUTEN STANDARD**

**LOT # 61201**

**DRIED BASIS VALUES**

**Feed Analysis**

% Fat	.78 +/- .25
% Crude Fiber	3.7 +/- .40
% Carbon	51.54 +/- 1.5
% Hydrogen	6.67 +/- .06
% Nitrogen	12.02 +/- .04

**AS BOTTLED VALUES**

**Ultimate Analysis**

% Carbon	45.27 +/- .15
% Hydrogen	5.98 +/- .05
% Nitrogen	10.38 +/- .17
% Sulfur	.85 +/- .15
% Moisture	10.42

**AS BOTTLED VALUES**

**Mineral Analysis**

% Calcium	.11 +/- .02
% Magnesium	.11 +/- .01
% Phosphorous	.72 +/- .07
PPM Boron	5 +/- 2
PPM Iron	279 +/- 25
PPM Zinc	178 +/- 23

**Mineral Analysis**

% Potassium	.29 +/- .05
% Sodium	.08 +/- .01
PPM Copper	31 +/- 4
PPM Manganese	145 +/- 40
PPM Aluminum	82 +/- 8

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

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 OPENING  
CERTIFIED NOVEMBER 2001**

*Kent Dyer*

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[www.alpharesources.com](http://www.alpharesources.com)