

Alpha Resources, Inc. Certificate Of Analysis

AR 2018
ALFALFA STANDARD

LOT # 41505

DRIED BASIS VALUES

Feed Analysis

% Fat	4.3 +/- .4
% Crude Fiber	25 +/- 2
% Carbon	N/A
% Hydrogen	N/A
% Nitrogen	N/A

AS BOTTLED VALUES

Ultimate Analysis

% Carbon	N/A
% Hydrogen	N/A
% Nitrogen	3.01 +/- 0.2
% Sulfur	0.27 +/- 0.04
% Moisture	N/A

AS BOTTLED VALUES

Mineral Analysis

% Calcium	1.38 +/- 0.06
% Magnesium	0.31 +/- 0.02
% Phosphorous	0.31 +/- 0.02

Mineral Analysis

% Potassium	2.47 +/- 0.18
% Sodium	0.04

PPM Boron	32 +/- 4
PPM Iron	427 +/- 56
PPM Zinc	30 +/- 4

PPM Copper	20 +/- 2
PPM Manganese	66 +/- 4
PPM Aluminum	279 +/- 30

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	NIST SRM.....	1547 Peach Leaves
Nitrogen.....	EDTA	NIST SRM.....	1573A Tomato

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 DECEMBER 2005**

Kent Dyer

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