Alpha Resources, Inc. Certificate Of Analysis

AR 2018 ALFALFA STANDARD LOT # 41901

DRIED BASIS VALUES

AS BOTTLED VALUES

	AS DOTTLED VALUES	
	Ultimate Analysis	
2.8 +/- 0.25	% Carbon	42.96 +/- 0.1
20.3 +/- 1.2	% Hydrogen	5.54 +/- 0.03
45.15 +/- 0.1	% Nitrogen	3.78 +/- 0.1
5.83 +/- 0.03	% Sulfur	0.30 +/- 0.02
4.13 +/- 0.15	% Moisture	4.86
AS BOTTLED VALUES		
_	Mineral Analysis	
2.19 +/- 0.1	% Potassium	1.99 +/- 0.11
0.34 +/- 0.02	% Sodium	0.04
0.32 +/- 0.02		
	/	
50 +/- 3	PPM Copper	11.5 +/- 1.0
353 +/- 20	PPM Manganese	52 +/- 3
23.5 +/- 2.5	PPM Aluminum	227 +/- 50
The following procedures and standards were employed in the analysis of the above standard:		
AOAC 935.13A	Total Nitrogen	AOAC 968.06
AOAC 962.09	Crude Fat	AOAC 920.39
ICP/AES – AOAC 975.03	NIST SRM	1547 Peach Leaves
	20.3 +/- 1,2 45.15 +/- 0.1 5.83 +/- 0.03 4.13 +/- 0.15 AS BOTTLED 2.19 +/- 0.1 0.34 +/- 0.02 0.32 +/- 0.02 50 +/- 3 353 +/- 20 23.5 +/- 2.5 standards were employed in the AOAC 935.13A AOAC 962.09	Ultimate Analysis 2.8 +/- 0.25

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 JUNE 2001

Kent Deer