

Alpha Resources, Inc. Certificate Of Analysis

**AR 2020
RYE FLOUR STANDARD
LOT # 52301**

DRIED BASIS VALUES

Feed Analysis

% Fat	1.18 +/- .04
% Crude Fiber	2.80 +/- .5
% Carbon	44.60 +/- .07
% Hydrogen	6.21 +/- .07
% Nitrogen	1.91 +/- .03

AS BOTTLED VALUES

Ultimate Analysis

% Carbon	39.50 +/- .06
% Hydrogen	5.50 +/- .06
% Nitrogen	1.75 +/- .05
% Sulfur	.13 +/- .03
% Moisture	11.41

AS BOTTLED VALUES

Mineral Analysis

% Calcium	.05 +/- .01
% Magnesium	.09 +/- .01
% Phosphorous	.29 +/- .05

Mineral Analysis

% Potassium	.40 +/- .05
% Sodium	<.01

PPM Boron	3 +/- 2
PPM Iron	73 +/- 13
PPM Zinc	31 +/- 2

PPM Copper	19 +/- 3
PPM Manganese	35 +/- 2
PPM Aluminum	14 +/- 3

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 PURCHASE WHICH
APPEARS ON THE BOTTLE
CERTIFIED NOVEMBER 2001**

Kent Dyer