

Alpha Resources, Inc.

Certificate Of Analysis

AR 2028
RICE FLOUR STANDARD
LOT # 715A

DRIED BASIS VALUES

Feed Analysis

% Crude Fat	0.46 +/- 0.06
% Crude Fiber	(0.32)
% Ash	(0.6)
% ADF Fiber	(1.58 +/- 0.69)
% Crude Protein	8.64 +/- 0.24

Ultimate Analysis

% Carbon	(45.38+/-1.72)
% Hydrogen	(6.69+/-0.06)
% Nitrogen	1.38 +/- 0.05
% Sulfur	0.12 +/- 0.02
% Moisture	(8.56)

DRIED BASIS VALUES

Bracketed values () are for reference only.

Mineral Analysis

% Calcium	<0.1
% Magnesium	(0.04 +/- 0.01)
% Phosphorous	0.14 +/- 0.01

Mineral Analysis

% Potassium	0.11 +/- 0.04
% Sodium	<0.01
% Chloride (Cl ⁻)	(0.05)

PPM Boron	<1
PPM Iron	(41 +/- 19)
PPM Zinc	22 +/- 8

PPM Copper	112 +/- 22
PPM Manganese	18 +/- 3
PPM Aluminum	<10

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.....AACC32-10	AOAC 962.09	Crude Fat.....AACC20-30	AOAC 920.39
	ICP/AES – AOAC	Traceable to: AAFCO	standards and materials
	975.03(B), 968.09	NIST1547	
Nitrogen.....	Aspartic Acid, EDTA	AOAC 973.18, 930.15	

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=2, 95% confidence limits. Refer to your test methods for expanded uncertainties.

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 rice 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.

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.

This standard was produced in accordance to Guide 34. Alpha Resources has become accredited under the ISO Guide 34:2009 for RMP and holds an ISO 17025 accreditation. Refer to certificate and scope of accreditation for details.

**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING
CERTIFIED September 11, 2015**

