

Elemental Microanalysis Limited

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Certificate of Analysis**Part No. B2272****Corn Gluten Standard**

Certificate Number 61201
 Date 17 April 2013
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Dried Basis Values**Feed Analysis**

% Fat	0.78 +/- 0.25
% Crude Fibre	3.7 +/- 0.4
% Carbon	51.54 +/- 1.5
% Hydrogen	6.67 +/- 0.06
% Nitrogen	12.02 +/- 0.04

As Bottled Values**Ultimate Analysis**

% Carbon	45.27 +/- 0.15
% Hydrogen	5.98 +/- 0.05
% Nitrogen	10.38 +/- 0.17
% Sulphur	0.85 +/- 0.15
% Moisture	10.42

As Bottled Values**Mineral Analysis**

% Calcium	0.11 +/- 0.02
% Magnesium	0.11 +/- 0.01
% Phosphorous	0.72 +/- 0.07

Mineral Analysis

% Potassium	0.29 +/- 0.05
% Sodium	0.08 +/- 0.01

PPM Boron	5 +/- 2
PPM Iron	279 +/- 25
PPM Zinc	178 +/- 23

PPM Copper	31 +/- 4
PPM Manganese	145 +/- 40
PPM Aluminium	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 Fibre	AOAC 962.09	Crude Fat	AOAC 920.39
Moisture	ASTM D 3173	Sulphur	ASTM D 4239 C
Mineral Analysis	ICP/AES AOAC975.03	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 Elemental Microanalysis Ltd 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 recommend that all secondary standards be verified and documented prior to use.

This CRM is valid for two years from the date of purchase

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Certified November 2001