

Elemental Microanalysis Limited

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Certificate of Analysis**Part No. B2276****Oatmeal Standard**

Certificate Number 1216E
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Dried Basis Values**Feed Analysis**

% Crude Fat (5.51)
 % Crude Fibre (7.97)
 % Ash 2.62 +/- 0.26
 % Starch (50.9)
 % Crude Protein 13.10 +/- 0.96
 % Sugar (6.9)

Bracketed values() are for reference only.**Ultimate Analysis**

% Carbon 47.00 +/- 0.62
 % Hydrogen 6.67 +/- 0.36
 % Nitrogen 2.03 +/- 0.12
 % Oxygen 42.10 +/- 0.92
 % Sulphur 0.16 +/- 0.04
 % Moisture (As bottled) (3.55)

Mineral Analysis

% Calcium (0.12)
 % Magnesium 0.16 +/- 0.04
 % Phosphorous 0.42 +/- 0.06

Mineral Analysis

% Potassium 0.42 +/- 0.10
 µg/g Sodium (159)
 µg/g Chloride (1108)

µg/g Boron (2.7)
 µg/g Iron (150)
 µg/g Zinc 43 +/- 3

µg/g Copper 37 +/- 6
 µg/g Manganese 62.2 +/- 11
 µg/Kg Mercury (3.2)

The following procedures and standards were employed in the analysis of the above standard:
 Various high purity analytical organic standard (OAS) were used including EDTA, CYC, BBOT, Cystine, Sulphamethazine and Acetanilide

| AOAC - | NFTA - | EPA - | ASTM - |
|--|--------|--------|--------------|
| 990.03, 920.39, 942.05, 968.08, 965.17, 969.10, 968.07, 930.15, 968.06, 962.09, 968.09 | 2.2.1 | SW-846 | D6722, D5373 |

The intended use of this reference standard is for the verification of food or feed analysis by various test methods. The uncertainty values represent the k=2, 95% confidence limits. Refer to your test methods and/or manufacturer manual for expanded uncertainties, *reproducibility/ repeatability* factors, and typical or minimum sample size needed.

Samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material certified. This bottle contains 30g of fine oat powder to be used as per the test method you follow. This product has an indefinite known shelf life unopened. Once opened, this certificate is limited to two years. Keep sealed and store under normal laboratory conditions

This is a Certified Reference Material (working standard) and is trace-able to the above-mentioned standards. For good laboratory practice it is recommended that all 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 Elemental Microanalysis Ltd be liable for incidental or consequential damages.

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THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING

Certified June 20, 2017