

Alpha Resources, LLC

Certificate Of Analysis

AR 2026
OAT FLOUR REFERENCE STANDARD
LOT # 1216E

DRIED BASIS VALUES

Bracketed values () are for reference only.

Feed Analysis		Ultimate Analysis	
% Crude Fat	(5.51)	% Carbon	47.00±0.62
% Crude Fiber	(7.97)	% Hydrogen	6.67±0.36
% Ash	2.62±0.26	% Nitrogen	2.03±0.12
% Starch	(50.9)	% Oxygen	42.10±0.92
% Crude Protein	13.10±0.96	% Sulfur	0.16±0.04
% Sugar	(6.9)	% Moisture (as bottled)	(3.55)
 Mineral Analysis		 Mineral Analysis	
% Calcium	(0.12)	% Potassium	0.42±0.10
% Magnesium	0.16±0.04	µg/g Sodium	(159)
% Phosphorous	0.42±0.06	µg/g Chloride	(1108)
µg/g Boron	(2.7)	µg/g Copper	37±6
µg/g Iron	(150)	µg/g Manganese	62.2±11
µg/g Zinc	43±3	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, Sulfamethazine 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. 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 and or manufacturer manual for expanded uncertainties, repeatability/reproducibility factors, and typical or minimum samples size needed.

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 oat powder to be used per the test method you follow. This reference 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 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 reference standard was produced in accordance to ISO Guide 31 and ISO 17034. 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 June 20, 2017

