



Certificate of Analysis

AR-2016

SOYBEAN MEAL CRM

LOT # 723C

DRIED BASIS VALUES

Feed Analysis				Ultimate Analysis					
% Ash	(6.61)	7	--	942.05	% Carbon	44.6 ± 0.73	27	2.1	972.43
% Crude Fat	(1.74)	17	--	2003.05	% Hydrogen	6.44 ± 0.06	20	2.1	CHNOS
% Crude Fiber	(4.32)	5	--	978.10	% Nitrogen	7.97 ± 0.23	26	2.1	990.03
% ADF Fiber	5.89 ± 0.59	4	3.2	973.18	% Sulfur	0.37 ± 0.06	23	2.1	985.01
% Crude Protein	50.1 ± 3.29	4	3.2	990.03					
% Starch	(1.65)	2	--	2014.10					
% Sugar	(19.43)	1	--	985.29					

Mineral Analysis				Mineral Analysis					
mg/kg Copper	255 ± 73	7	2.4	2011.14/985.01	% Sodium	(0.03)	7	--	2011.14/985.01
mg/kg Aluminum	(36)	7	--	ICP USP 233	mg/kg Boron	44 ± 2	3	3.2	975.03b
% Potassium	2.44 ± 0.17	7	2.4	2011.14/985.01	% Phosphorus	0.76 ± 0.08	7	2.4	2011.14/985.01
mg/kg Iron	122 ± 18	7	2.4	2011.14/985.01	mg/kg Zinc	65 ± 9.7	7	2.4	2011.14/985.01
% Calcium	0.38 ± 0.04	7	2.4	2011.14/985.01	mg/kg Manganese	(51)	7	--	2011.14/985.01
% Magnesium	0.32 ± 0.05	7	2.4	2011.14/985.01					

Items shown in () are given for informational or reference purposes. Dried or corrected per AOAC method 930.15.

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, Chief Chemist, at Alpha Resources. The uncertainty values represent the k=2, 95% confidence limits using ISO Guide 35 and ISO Guide to Uncertainty Measurement. Refer to your test methods and or manufacturer manual for expanded uncertainties, repeatability/reproducibility factors, and typical or minimum sample size needed.

Samples for round robin testing were selected in accordance with ARI-LAB-625. The values only relate to the material certified. Material processing includes freezing, drying, pulverizing, and mixing to ensure homogeneity and eradicate any bio-organisms. This bottle contains 30g of fine Soybean Meal to be used per the test method you follow. This reference is valid for two years after opening and should be reviewed 20 years after certification date. Keep sealed tightly and store under normal laboratory conditions.

This is a certified reference material and shows metrological traceability in the form of SI units expressed as mass fraction in percent or mg/kg. For good laboratory practice, we recommend that all reference materials be verified as fit for purpose 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 CRM was produced in accordance with ISO17034 (RMP) accreditation issued by ANSI National Accreditation Board. Refer to certificate and scope of accreditation AR1920.

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

CERTIFIED February 9, 2024

Kent Dyer
Chief Chemist