

Alpha Resources, Inc. Certificate Of Analysis

AR1905

COAL STANDARD

LOT # 905395 LID ID 1905

DRIED BASIS VALUE

WEIGHT PERCENT CARBON = 70.87
WEIGHT PERCENT HYDROGEN = 5.05
WEIGHT PERCENT NITROGEN = 1.58

Round Robin Results

LAB	% CARBON	% HYDROGEN	% NITROGEN
1	71.08	5.11	1.58
2	70.87	4.99	1.47
3	70.66	5.09	1.69
4	71.02	5.01	1.63
5	70.72	5.05	1.53

Methods
ASTM D 3178
ASTM D 3179

Notes:

NIST SRM 1623b was used by all labs as a benchmark

Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The statistical analysis and overall coordination leading to certification was performed by D.M. Reasons at Alpha Resources.

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 is a certified reference material (CRM) and should be verified, prior to use, against a primary standard material provided by a governing agency such as N.I.S.T., when available.

EXPIRATION DATE

THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE WHICH APPEARS ON THE BOTTLE

