

Alpha Resources, Inc.

Certificate Of Analysis

AR2713
GREEN PET COKE STANDARD
LOT # 713512 LID # 745512

DRIED BASIS VALUE
WEIGHT PERCENT SULFUR = 0.54
STANDARD DEVIATION = 0.04
METHOD:
ASTM D 4239-12, ARI-035

This Certified Reference Material is traced to: NIST SRM 2775, 2719, 2718

The analytical values were derived by a number of data sets (n=30) by instrumentation meeting ASTM D4239-12. The precision value represents the expanded degree of uncertainty based on errors from analytical assay at a 95% confidence level (k=2). 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 at Alpha Resources. Normal ASTM procedures should be employed when using this standard; this includes using the *reproducibility* and *repeatability* factors of the method for establishing analytical uncertainty.

The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. The analytical samples were dried under a nitrogen atmosphere at 107° C +/- 3°C until a steady mass was achieved. This bottle contains 50g fine mesh (less than 60 mesh) material.

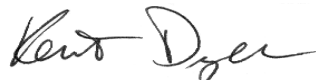
Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages. The above values relate only to the material used to produce this standard. This certificate cannot be reproduced except in full.

This is a Certified Reference Material (working standard), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use. This calibration standard is accredited and meets the requirements of ISO/IEC17025 as verified by ACLASS the ANSI-ASQ National Accreditation Board. Contact Alpha Resources for details of our certification and scope of accreditation.

EXPIRATION DATE

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

Certified August 7, 2012



Technical Manager

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