Elemental Microanalysis Limited

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Certificate of Analysis Part No. B2302 Coal Standard

Certificate Number 702417 Page 1 of 1

Dried Basis Value

Weight Percent Sulphur = 0.73 Expanded Uncertainty = 0.02

Method ASTM D 4239-14 and ARI-035

This Certified Reference Material is traced to N.I.S.T. SRM 2692c 2682b, 2693 and NCS FC28004b

The intended use of this reference standard is for the calibration and validation of sulphur by resistance furnace infra-red detection analysis as specified by ASTM 4239 or other valid test methods. The analytical values were derived by a number of data points (n=40) and reported in mass fraction. The sample size used and minimum sample size is approximately 300-350mg. The precision value represents expanded degree of uncertainty based on errors from analytical assay at a 95% confidence interval (k=2), and may not fit within your testing capabilities. Formal testing procedures should be followed when using this standard; this includes using the *reproducibility* and *repeatability* factors for establishing overall analytical uncertainty

The material used in the production of this standard was identified in accordance with ARI 041. The samples for round robin testing were selected in accordance with ARI 031. The above values relate only to the material used to produce this standard. The analytical samples were dried as per the NMI used or corrected for moisture as per the test method.

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. This bottle contains 50g, minus 60 mesh (250 micron) coal powder. When kept stored and sealed properly this product has an indefinite shelf life. Once opened, this certificate is valid for two years.

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 prior to use. The above values relate only to the material used to produce this standard

This CRM is valid for two years from the date of opening

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Certified July 11, 2017