

# Alpha Resources, Inc. Certificate Of Analysis

AR-1726

## COAL STANDARD

LOT #781104 LID # 781104

### DRIED BASIS VALUE

MEAN WEIGHT % SULFUR	=	1.91
STANDARD DEVIATION	=	0.03
MEAN WEIGHT % ASH	=	18.31
STANDARD DEVIATION	=	0.24
MEAN WEIGHT % VOL. MATTER	=	24.31
STANDARD DEVIATION	=	0.62
BTU	=	12,335
STANDARD DEVIATION	=	65
MEAN WEIGHT % FIXED CARBON	=	57.01

#### Methods Employed:

SULFUR	ASTM	D 4239-02 Method C
ASH	ASTM	D 3174, D 5142-02
VOL. MATTER	ASTM	D 3175, D 5142-02
BTU	ASTM	D 5865

The certified mean values were statistically derived from the values reported to Alpha Resources through Round Robin.

This Certified Reference Material was traced to N.I.S.T. SRM 1630a, 2682b, 2684a and 2685a.

The material used in production of this standard was sampled in accordance with ARI 031. The above values relate only to the material used to produce this standard.

The overall direction and coordination of the analytical measurements leading to certification was performed by J.R. Shingledecker 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). For good laboratory practice it is recommended that all standards be verified prior to use.

#### EXPIRATION DATE

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

*J.R. Shingledecker*

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