

# Alpha Resources, Inc. Certificate Of Analysis

AR 742B

## GREEN PETROLEUM COKE STANDARD

LOT # 742901

LID ID 742901

### ALL ANALYSIS REPORTED ON A DRIED BASIS VALUE

MEAN WEIGHT % SULFUR	=	1.20	MEAN WEIGHT % NICKEL	=	0.0128
STANDARD DEVIATION	=	0.05	STANDARD DEVIATION	=	
MEAN WEIGHT % ASH	=	0.09	MEAN WEIGHT % IRON	=	0.0240
STANDARD DEVIATION	=	0.02	STANDARD DEVIATION	=	
MEAN WEIGHT % VOL. MAT.	=	10.38	MEAN WEIGHT % VANADIUM	=	0.0088
STANDARD DEVIATION	=	0.41	STANDARD DEVIATION	=	
MEAN WEIGHT % CARBON	=	91.85	MEAN WEIGHT % CALCIUM	=	0.0056
STANDARD DEVIATION	=	1.25	STANDARD DEVIATION	=	
MEAN WEIGHT % NITROGEN	=	1.26	MEAN WEIGHT % SILICON	=	0.0140
STANDARD DEVIATION	=	0.15	STANDARD DEVIATION	=	
MEAN WEIGHT % HYDROGEN	=	3.96			
STANDARD DEVIATION	=	0.15			

Notes:

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

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.

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

