

# Alpha Resources, Inc. Certificate Of Analysis

AR 304

IRON STANDARD

LOT # 61297

**% CARBON**  
**MEAN = 4.20**  
**ONE SIGMA = 0.07**  
**TWO SIGMA = 0.14**  
**RANGE = 4.11 – 4.36**

**% SULFUR**  
**MEAN = 0.015**  
**ONE SIGMA = 0.002**  
**TWO SIGMA = 0.004**  
**RANGE = 0.0114 – 0.0190**

Method of Analysis is combustion / IR Detection  
ASTM E 1019 (Latest Revision)

The statistical data was derived by a number of analyses provided by separate instruments over different days.

The precision values represent the standard deviation, two times the standard deviation, and complete range of analyses.

Standards employed:

NIST	122f, 4k
JSS	110-7
EURO	481-1

Notes:

The statistical analysis of the certification was performed by K.E. Dyer at Alpha Resources.

The overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer 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 is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

Certified June, 1997



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