

Alpha Resources, Inc. Certificate Of Analysis

AR3033

NITROGEN IN CRUDE OIL STANDARD

LOT #033494

LID ID 033494

PARTS PER MILLION NITROGEN = 749
STANDARD DEVIATION = 60

Round Robin Summary

| LAB | PPM NITROGEN | METHOD |
|-----|--------------|--------|
| 1 | 809 | 1 |
| 2 | 689 | 1 |
| 3 | 771 | 1 |
| 4 | 749 | 1 |
| 5 | 727 | 1 |

Method

1. ASTM D 3228

NIST SRM employed was 1836

Notes:

Before use, the contents of the bottle should be mixed through vigorous shaking. The contents should not be exposed to air for a lengthy period of time.

Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The statistical analysis of the certification was performed by D.M. Reasons at Alpha Resources.

The overall direction and coordination of the analytical measurements leading to certification were 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.

This is a certified reference material (CRM) and should be verified, prior to use, against a primary standard material provided by a governing agency such as N.I.S.T., when available.

EXPIRATION DATE

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

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone (

www.alpharesources.com

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