

# Alpha Resources, Inc. Certificate Of Analysis

AR-2030  
EDTA

(Ethylene-Dinitrilo) – Tetraacetic Acid  
Powder

LOT#P782010

% Carbon = 41.10 +/- 0.09

% Nitrogen = 9.59 +/- 0.02

% Hydrogen = 5.51 +/- 0.04

Maximum Limits of Impurities

% Calcium.....	0.0006
Heavy Metals (as Pb).....	0.001
Insoluble in dilute NH <sub>4</sub> OH	0.001
Iron.....	0.005
Magnesium.....	0.00005

Notes:

The +/- value reported represents two times the standard deviation obtained from the data reported to the Round Robin.

The certified mean values were not statistically derived from the values reported to Alpha Resources through Round Robin.

Traced to NIST SRM 17d @ 42.10 % Carbon, 6.48 % Hydrogen  
Traced to NIST 148 @ 11.38 % Nitrogen

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 verified by its purity and empirical stoichiometry in accordance with recommendations of the Analytical Chemistry Section of the International Union of Pure and Applied Chemistry.

**EXPIRATION DATE**  
**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE**

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone 465-3629

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