# Alpha Resources, Inc. Certificate Of Analysis

### AR2030 EDTA

(Ethylene-Dinitrilo) – Tetraacetic Acid Powder

#### LOT # T15B032

% Carbon	=	41.10
% Nitrogen	=	9.58

Specifications	Limits	Lot Results
Assay	99.4 – 100.6%	99.8%
Insoluble in dilute NH <sub>4</sub> OH	0.005% max	< 0.001%
Nitrilotriacetic Acid	0.1% max	0.003%
Residue after ignition	0.2% max	0.14%
Heavy metals (as Pb)	0.001% max	< 0.001%
Iron	0.005% max	< 0.005%
Calcium	0.001% max	0.0001%
Magnesium	0.0005% max	< 0.0001%

% Hydrogen

#### Notes:

This Organic Analytical Standard (OAS) consists of high purity EDTA for use as a routine working micro analytical standard for the determination of Carbon, Nitrogen and Hydrogen. Refer to your instrument manufacturer's recommendations and/or test method for uncertainty capabilities.

The bottle contains 500g of high purity EDTA to be used per your test method. 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. The values for Carbon, Nitrogen and Hydrogen represent the stoichiometric values of high purity EDTA.

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.

Alpha Resources is accredited under the ISO Guide 34:2009 for RMP and holds an ISO 17025 accreditation. Refer to certificate and scope of accreditation for details.

## EXPIRATION DATE THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING

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