

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Product:

Structure:

Catalogue H538390 CAS 3794-83-0 Number:

(1-Hydroxyethylidene)bis-

phosphonic Acid Tetrasodium Salt

Synonym: (Hydroxyethylidene)diphosphonic Acid

Tetrasodium Salt; 1-Hydroxyethane-1,1diphosphonic acid Tetrasodium Salt; 1-Hydroxyethylidene-1,1-diphosphonic Acid Tetrasodium Salt; Briquest ADPA 21SH; Chelest PH 214; DQ 2016; Defloc EN 43; Dequest 2016; Dequest 2016D; Encap 81105; Etidronic Acid Tetrasodium Salt; Feliox 115A Tetrasodium

Salt; PH 214; SHEDN; Sequion 10Na4; Tarpinel

4NL; Tetrasodium (1-

hydroxyethylidene)bis[phosphonate];Tetrasodium

hydroxyethylidene)diphosphonate; Tetrasodium

1-hydroxy-

Molecular Formula:

C2H4O7P2Na4

Molecular weight:

293.96

Source of Product:

N/A

Solubility:

Aqueous Acid (Slightly), Water (Sparingly)

Purity:

Lot 2023-QIU-120 98% Number:

Storage This Product Is Stable To Be **Shipping** Condition: 4°C Condition: Shipped At Room Temperature

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Results: Specifications: Tests: **Appearance** White to Off-White Solid White Solid C NMR Conforms to Structure Conforms P NMR Conforms to Structure Conforms

Elemental %C: 7.76, %H: 2.06 Conforms Analysis

HPLC Purity Report Result 99.58% (ELSD)

MS Conforms to Structure Conforms **NMR** Conforms to Structure Conforms

Sodium Content Report Result 27.26% by Ion Chromatography

Additional Information: N/A Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4.	Sia	natures

Reviewed By Reviewed By C of A Approved Test Date Retest Date

Henry Tieu Toni Rantanen Chanell Chu 3/15/2023 3/13/2027