

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-07 10:40:42
 Date of Next Testing: 2026-09-06 10:40:42
 Product Name: **Ethylenediaminetetraacetic acid disodium salt dihydrate**
 CAS Number: 6381-92-6
 Specifications & Purity: for HPLC, ≥99.0%
 Lot #: I2202552
 SKU #: **E118594**
Analysis: 103981

Parameter	Limit Values	Result
Sulfate(SO42-)	0-50 (ppm)	23.80 ppm
Molybdenum(Mo)	0-5 (ppm)	3.10 ppm
Potassium(K)	0-50 (ppm)	24.70 ppm
(Pb)Lead	0-5 (ppm)	2.30 ppm
Calcium(Ca)	0-10 (ppm)	5.30 ppm
Chromium(Cr)	0-5 (ppm)	2.44 ppm
Nickel(Ni)	0-5 (ppm)	3.10 ppm
UV Absorbance 500nm(0.1 M in H2O)	0-0.02	0.01
Chloride (Cl-)	0-50 (ppm)	22.30 ppm
Manganese(Mn)	0-5 (ppm)	3.20 ppm
Zinc(Zn)	0-5 (ppm)	2.22 ppm
Lithium(Li)	0-5 (ppm)	2.90 ppm
Strontium(Sr)	0-5 (ppm)	2.80 ppm
Iron(Fe)	0-5 (ppm)	2.70 ppm
Copper(Cu)	0-5 (ppm)	3.10 ppm
Magnesium(Mg)	0-5 (ppm)	3.20 ppm
Cadmium(Cd)	0-5 (ppm)	3.30 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	2.50 ppm
Aluminum(Al)	0-5 (ppm)	3.10 ppm
Barium(Ba)	0-5 (ppm)	3.20 ppm
UV Absorbance 290nm(0.1 M in H2O)	0-0.02	0.01
UV Absorbance 270nm A (0.1 M in H2O)	0-0.05	0.03
Absorbance(0.1mol/L,H2O,260nm)	0-0.15	0.14
UV Absorbance 280nm(0.1 M in H2O)	0-0.03	0.01
Purity Titration by EDTA	99-100 (%)	99.41%
for RP gradient test	corresponds to standard	corresponds to standard

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Parameter	Limit Values	Result
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , colorless and clear (0.1M)	pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager