

Shanghai Aladdin Biochemical Technology Co., LTD  
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

## Certificate of Analysis

Date of Testing: 2024-12-13 15:53:35  
Date of Next Testing: 2027-12-13 15:53:35  
Product Name: **Ethylenediaminetetraacetic acid disodium salt dihydrate**  
CAS Number: 6381-92-6  
Specifications & Purity: UltraPureChrom™, for HPLC, ≥99%(KT)  
Lot #: L2409228  
SKU #: **E433191**  
Version: **1**  
Analysis #: **449398**

| Parameter                         | Limit Values                          | Result                                |
|-----------------------------------|---------------------------------------|---------------------------------------|
| Purity(Titration (KT) ZnSO4 0.1M) | 99-101 (%)                            | 99.07000 %                            |
| Aluminium(Al)                     | 0-5 (ppm)                             | 0.00000 ppm                           |
| Barium(Ba)                        | 0-5 (ppm)                             | 0.00000 ppm                           |
| Bismuth(Bi)                       | 0-5 (ppm)                             | 0.00000 ppm                           |
| Calcium(Ca)                       | 0-20 (ppm)                            | 0.00000 ppm                           |
| Cadmium(Cd)                       | 0-5 (ppm)                             | 0.00000 ppm                           |
| Cobalt(Co)                        | 0-5 (ppm)                             | 0.00000 ppm                           |
| Chromium(Cr)                      | 0-5 (ppm)                             | 0.00000 ppm                           |
| Copper(Cu)                        | 0-5 (ppm)                             | 0.00000 ppm                           |
| Iron(Fe)                          | 0-5 (ppm)                             | 0.00000 ppm                           |
| Potassium(K)                      | 0-50 (ppm)                            | 0.00000 ppm                           |
| Lithium(Li)                       | 0-5 (ppm)                             | 0.00000 ppm                           |
| Magnesium(Mg)                     | 0-5 (ppm)                             | 0.00000 ppm                           |
| Manganese(Mn)                     | 0-5 (ppm)                             | 0.00000 ppm                           |
| Molybdenum(Mo)                    | 0-5 (ppm)                             | 0.00000 ppm                           |
| Nickel(Ni)                        | 0-5 (ppm)                             | 0.00000 ppm                           |
| Lead(Pb)                          | 0-5 (ppm)                             | 0.00000 ppm                           |
| Strontium(Sr)                     | 0-5 (ppm)                             | 0.00000 ppm                           |
| Zinc(Zn)                          | 0-5 (ppm)                             | 0.00000 ppm                           |
| Chloride (Cl-)                    | 0-50 (ppm)                            | 0.00000 ppm                           |
| Total sulfur as SO4 (ICP)         | 0-50 (ppm)                            | 0.00000 ppm                           |
| UV Absorbance 260nm               | 0-0.145                               | 0.09900                               |
| UV Absorbance 280nm               | 0-0.025                               | 0.02000                               |
| Appearance(E433191)               | Colorless or White Powder or Crystals | Colorless or White Powder or Crystals |

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| Parameter                                           | Limit Values          | Result                |
|-----------------------------------------------------|-----------------------|-----------------------|
| Solubility (1.117 g in 30 ml H <sub>2</sub> O)Clear | pass                  | Pass                  |
| Colorless                                           |                       |                       |
| Infrared spectrum                                   | Conforms to Structure | Conforms to Structure |
| Suitability Test (HPLC)                             | Pass                  | Pass                  |

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

John Su  
QA & QC Manager