

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

## Certificate of Analysis

Date of Testing: 2024-12-10 13:47:24  
Date of Next Testing: 2027-12-10 13:47:24  
Product Name: **Ethylenediaminetetraacetic acid disodium salt dihydrate**  
CAS Number: 6381-92-6  
Specifications & Purity: UltraBio™, Ultra pure, BioReagent, ≥98.5%  
Lot #: L2409694  
SKU #: **E433190**  
Version: **2**  
Analysis #: **446704**  
Storage Temperature: Room temperature

| Parameter                                | Limit Values          | Result                |
|------------------------------------------|-----------------------|-----------------------|
| Purity(Titration)                        | 98.5-101.5 (%)        | 98.90000 %            |
| pH(0.1M,H2O)                             | 4-6                   | 5.00000               |
| Insoluble matter                         | 0-0.1 (%)             | 0.02000 %             |
| Chloride (Cl-)                           | 0-0.05 (%)            | 0.00250 %             |
| Aluminum(Al)                             | 0-0.001 (%)           | 0.00000 %             |
| Phosphorus (P)                           | 0-0.005 (%)           | 0.00000 %             |
| Lead(Pb)                                 | 0-0.001 (%)           | 0.00000 %             |
| Copper(Cu)                               | 0-0.0005 (%)          | 0.00000 %             |
| Zinc(Zn)                                 | 0-0.0005 (%)          | 0.00000 %             |
| Iron(Fe)                                 | 0-0.0005 (%)          | 0.00000 %             |
| Magnesium(Mg)                            | 0-0.0005 (%)          | 0.00000 %             |
| Calcium(Ca)                              | 0-0.0005 (%)          | 0.00000 %             |
| Ammonia (NH3)                            | 0-0.05 (%)            | 0.02500 %             |
| Potassium(K)                             | 0-0.005 (%)           | 0.00040 %             |
| Loss on drying(140°C)                    | 7-11 (%)              | 8.93000 %             |
| Appearance(E433190)                      | White Powder          | White powder          |
| Solubility:0.1M in H2O, Clear, Colorless | Pass                  | Pass                  |
| Infrared spectrum                        | Conforms to Structure | Conforms to Structure |

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A handwritten signature in black ink that reads "John Su". The script is fluid and cursive.

John Su  
QA & QC Manager