

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

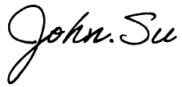
Date of Testing: 2022-11-10 17:14:38  
 Date of Next Testing: 2026-11-09 17:14:38  
 Product Name: **TES**  
 CAS Number: 7365-44-8  
 Specifications & Purity: Ultra pure, ≥ 99.5%(T)  
 Lot #: K2209140  
 SKU #: **T105114**  
**Analysis:** **050470**  
 Storage Temperature: Room temperature, Desiccated

| Parameter                     | Limit Values   | Result   |
|-------------------------------|----------------|----------|
| Zinc(Zn)                      | 0-0.0005 (%)   | 0.00 %   |
| A280 (1 m in H2O)             | 0-0.045        | 0.02     |
| Chromium(Cr)                  | 0-0.0005 (%)   | 0.00 %   |
| Lead(Pb)                      | 0-0.0005 (%)   | 0.00 %   |
| loss on drying, 110 °C        | 0-1 (%)        | 0.00 %   |
| Lithium(Li)                   | 0-0.0005 (%)   | 0.00 %   |
| Potassium(K)                  | 0-0.02 (%)     | 0.00 %   |
| Molybdenum(Mo)                | 0-0.0005 (%)   | 0.00 %   |
| Iron(Fe)                      | 0-0.0005 (%)   | 0.00 %   |
| Copper(Cu)                    | 0-0.0005 (%)   | 0.00 %   |
| Aluminum(Al)                  | 0-0.0005 (%)   | 0.00 %   |
| Barium(Ba)                    | 0-0.001 (%)    | 0.00 %   |
| Bismuth(Bi)                   | 0-0.0005 (%)   | 0.00 %   |
| Magnesium(Mg)                 | 0-0.0005 (%)   | 0.00 %   |
| Cadmium(Cd)                   | 0-0.0005 (%)   | 0.00 %   |
| A260 (1 m in H2O)             | ≤0.06          | 0.03     |
| Strontium(Sr)                 | 0-0.0005 (%)   | 0.00 %   |
| Chloride (Cl-)                | 0-0.005 (%)    | 0.00 %   |
| Nickel(Ni)                    | 0-0.0005 (%)   | 0.00 %   |
| Cobalt(Co)                    | 0-0.0005 (%)   | 0.00 %   |
| Sulfate(SO42-)                | 0-0.005 (%)    | 0.00 %   |
| Sodium(Na)                    | 0-0.01 (%)     | 0.00 %   |
| (As)Arsenic                   | 0-0.0001 (%)   | 0.00 %   |
| Manganese(Mn)                 | 0-0.0005 (%)   | 0.00 %   |
| Ignition Residue(SO4, 900 °C) | 0-0.1 (%)      | 0.07 %   |
| Purity(Titration)             | 99.5-100.5 (%) | 100.01 % |

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| Parameter   | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| PH(1 M in water)  | 3.5-5                 | 3.74                  |
| Appearance (T105114)  | white powder          | White powder          |
| Infrared spectrum   | Conforms to Structure | Conforms to Structure |
| Insoluble matter  | pass                  | Pass                  |
| Solubility in H <sub>2</sub> O , colorless and clear (0.1M) | pass                  | Pass                  |

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

John Su  
QA & QC Manager