

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

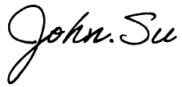
Date of Testing: 2023-03-25 16:32:02  
 Date of Next Testing: 2027-03-24 16:32:02  
 Product Name: **TES**  
 CAS Number: 7365-44-8  
 Specifications & Purity: Ultra pure, ≥ 99.5%(T)  
 Lot #: C2322550  
 SKU #: **T105114**  
**Analysis:** **191485**  
 Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-0.0005 (%)	0.00 %
A280 (1 m in H <sub>2</sub> O)	0-0.045	0.01
Chromium(Cr)	0-0.0005 (%)	0.00 %
Lead(Pb)	0-0.0005 (%)	0.00 %
loss on drying, 110 °C	0-1 (%)	0.04 %
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 H <sub>2</sub> O)	≤0.06	0.01
Strontium(Sr)	0-0.0005 (%)	0.00 %
Chloride (Cl <sup>-</sup> )	0-0.005 (%)	0.00 %
Nickel(Ni)	0-0.0005 (%)	0.00 %
Cobalt(Co)	0-0.0005 (%)	0.00 %
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	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(SO <sub>4</sub> , 900 °C)	0-0.1 (%)	0.05 %
PH(1 M in water)	3.5-5	3.80

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Parameter	Limit Values	Result
Purity(Titration)	99.5-100.5 (%)	100.48 %
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
Appearance (T105114)	white powder	White Powder or Crystals

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

John Su  
QA & QC Manager