

## Certificate of Analysis

Date of Testing: 2024-07-19 17:35:06

Date of Next Testing: 2028-07-18 17:35:06

Product Name: **TES**

CAS Number: 7365-44-8

Specifications & Purity: Ultra pure, ≥ 99.5%(T)

Lot #: G2418437

SKU #: **T105114**

Version: **0**

Analysis #: **382218**

Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-0.0005 (%)	0.00 %
A280 (1 m in H2O)	0-0.045	0.04
Chromium(Cr)	0-0.0005 (%)	0.00 %
Lead(Pb)	0-0.0005 (%)	0.00 %
loss on drying, 110 °C	0-1 (%)	0.24 %
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	0.05
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 %
(As)Arsenic	0-0.0001 (%)	0.00 %
Manganese(Mn)	0-0.0005 (%)	0.00 %
Ignition Residue(SO4, 900 °C)	0-0.1 (%)	0.00 %
Purity(Titration)	99.5-100.5 (%)	99.95 %

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14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
PH(1 M in water)	3.5-5	3.69
Sodium(Na)	0-0.01 (%)	0.01 %
Appearance (T105114)	White Powder or Crystals	White Powder or Crystals
Insoluble matter	pass	Pass
Solubility in H <sub>2</sub> O , colorless and clear (0.1M)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure

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

John Su  
QA & QC Manager