

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-10 10:52:24

Date of Next Testing: 2027-05-09 10:52:24

Product Name: **4-Thiazolecarboxylic acid**

CAS Number: 3973-08-8

Specifications & Purity: $\geq 97\%$

Lot #: E2305749

SKU #: **T119302**

Version: **1**

Analysis #: **107238**

Parameter	Limit Values	Result
Purity (Titration by NaOH)	96.5-103.5 (%)	99.30 %
Melting point	195-199 (°C)	196.22000 °C
Purity(HPLC)	97-100 (%)	99.62900 %
Appearance (T119302)	White to yellow powder or crystals	White to yellow powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager