

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-05 12:00:00

Date of Next Testing: 2027-09-04 12:00:00

Product Name: **3-Bromothiophene-2-carboxylic Acid**

CAS Number: 7311-64-0

Specifications & Purity: >98.0%(GC)

Lot #: H2323805

SKU #: **B153084**

Analysis: **257481**

Parameter	Limit Values	Result
Purity(Neutralization titration)	97.5-102.5 (%)	99.55 %
Melting point	196-200 (°C)	199.95000 °C
Purity(GC)	98-100 (%)	98.02 %
Appearance (B153084)	White to brown powder,crystals and/or chunks	White to brown powder,crystals and/or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager