

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-15 10:40:24

Date of Next Testing: 2026-11-14 10:40:24

Product Name: **3,4-Diaminothiophene Dihydrochloride**

CAS Number: 90069-81-1

Specifications & Purity: 97%

Lot #: K2208453

SKU #: **D123869**

Analysis: **119185**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	14-16.1 (%)	15.30 %
Carbon by Elemental Analysis	24.4-26.2 (%)	25.30 %
Purity(HPLC)	97-100 (%)	97.82500 %
Purity(Titration by AgNO ₃)	96.5-103.5 (%)	100.72 %
Appearance (D123869)	White to Green to Beige to Brown Solid	White to Green to Beige to Brown Solid
NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager