

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-16 16:57:24

Date of Next Testing: 2026-12-15 16:57:24

Product Name: **4,5-Imidazoledicarboxylic acid**

CAS Number: 570-22-9

Specifications & Purity: 97%

Lot #: L2207541

SKU #: **I107066**

Analysis: 131288

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	17.3-18.6 (%)	17.90 %
Carbon by Elemental Analysis	37.1-39.8 (%)	38.20 %
Purity(HPLC)	97-100 (%)	98.26300 %
Appearance (I107066)	White to Off-White to Tan Powder or Crystals	White to Off-White to Tan Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in NaOH solution	almost transparency	almost transparency

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

John Su
QA & QC Manager