

Certificate of Analysis

Date of Testing: 2023-12-19 16:07:20

Date of Next Testing: 2027-12-18 16:07:20

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

CAS Number: 570-22-9

Specifications & Purity: 97%

Lot #: L2318331

SKU #: **I107066**

Version **0**

Analysis #: **300183**

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	17.3-18.6 (%)	17.84 %
Purity(HPLC)	97-100 (%)	98.93100 %
Carbon by Elemental Analysis	37.1-39.8 (%)	38.12 %
Appearance (I107066)	White to Off-White to Tan Powder or Crystals	White to Off-White to Tan Powder or Crystals
Solubility in NaOH solution	almost transparency	almost transparency
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager