

Certificate of Analysis

Date of Testing: 2022-03-08 16:45:19

Date of Next Testing: 2026-03-07 16:45:19

Product Name: **1,10-Phenanthroline-2,9-dicarboxylic acid hydrate**

CAS Number: 57709-61-2

Specifications & Purity: 98%

Lot #: C2203172

SKU #: **P122853**

Analysis: **072293**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	60.7-62.9 (%)	62.85 %
Purity(HPLC)	98-100 (%)	98.12000 %
Nitrogen by Elemental Analysis (anhydrous)	9.6-10.9 (%)	10.48 %
Appearance (P122853)	Yellow to Orange Powder and/or Chunks	Yellow to Orange Powder and/or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager