

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-04 15:39:42

Date of Next Testing: 2028-11-03 15:39:42

Product Name: **1,10-Phenanthroline monohydrochloride monohydrate**

CAS Number: 3829-86-5

Specifications & Purity: AR, ≥97%

Lot #: J2424253

SKU #: **P109272**

Version: **4**

Analysis #: **430447**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Sulfate Ash	0-0.1 (%)	0.00000 %
Water by Karl Fischer	0-8.5 (%)	7.47770 %
Melting point	224-227 (°C)	226.06000 °C
Purity(HPLC area)	97-100 (%)	99.83900 %
Appearance (P109272)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Solubility in H ₂ O , 0.1 g/mL, transparent	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager