

## Certificate of Analysis

Date of Testing: 2022-06-25 10:05:36  
Date of Next Testing: 2026-06-24 10:05:36  
Product Name: **1,10-Phenanthroline Monohydrate**  
CAS Number: 5144-89-8  
Specifications & Purity: ACS,  $\geq 99\%$   
Lot #: F2221503  
SKU #: **P104935**  
Version: **0**  
Analysis #: **092094**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	71.6-73.8 (%)	72.69%
Nitrogen by Elemental Analysis	13.9-14.3 (%)	13.91%
Appearance (P104935)	White Powder or Crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Testing for Use in the Determination of Iron	pass	Pass
Suitability as redox indicator	Passes test	Passes test



John Su  
QA & QC Manager