

Certificate of Analysis

Date of Testing: 2022-09-21 12:04:35
Date of Next Testing: 2026-09-20 12:04:35
Product Name: **L-Cysteine hydrochloride monohydrate**
CAS Number: 7048-04-6
Specifications & Purity: 99%
Lot #: I2216105
SKU #: **C110436**
Analysis: **108750**
Storage Temperature: Protected from light,Argon charged,Desiccated

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=8 \text{ in } 1\text{mol/L HCl})$	5-7 (°)	5.56 °
Purity(Iodometric Titration)(calcd.on anh.substance)	99-100 (%)	99.11%
Loss on drying (P2O5 , vacuum drier)	8.5-12 (%)	8.52000 %
Appearance (C110436)	White Crystals, Powder or Crystalline Solid	White Crystals, Powder or Crystalline Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless and clear(5% in H2O)	pass	Pass



John Su
QA & QC Manager