

## Certificate of Analysis

Date of Testing: 2022-12-20 21:02:27  
Date of Next Testing: 2025-12-19 21:02:27  
Product Name: **D-Cysteine**  
CAS Number: 921-01-7  
Specifications & Purity: 98%  
Lot #: L2216905  
SKU #: **D304972**  
**Analysis:** **137319**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Assay(Titration by Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> )	97.5-102.5 (%)	98.87 %
Specific rotation [ $\alpha$ ] <sub>20/D</sub> (c=5% in 5 M HCl)	-8.6 ~ -5.6 (°)	-7.06700 °
Appearance (D304972)	White to off-white Crystalline powder or solid	White to off-white Crystalline powder or solid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager