

## Certificate of Analysis

Date of Testing: 2022-04-21 17:34:52  
Date of Next Testing: 2024-04-20 17:34:52  
Product Name: **L-cystinedihydrochloride**  
CAS Number: 30925-07-6  
Specifications & Purity:  $\geq 98\%$   
Lot #: D2219114  
SKU #: **L133106**  
Analysis: **082930**

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in } 1\text{mol/L HCl})}$	-173--163 (°)	-171.06 °
Purity(Titration by AgNO <sub>3</sub> )	97.5-102.5 (%)	100.94 %
Appearance (L133106)	white to off-white crystalline powder	white to off-white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager