

## Certificate of Analysis

Date of Testing: 2024-10-24 10:57:28  
Date of Next Testing: 2027-10-24 10:57:28  
Product Name: **D-Cysteine Hydrochloride Monohydrate**  
CAS Number: 207121-46-8  
Specifications & Purity:  $\geq 98\%$   
Lot #: J2417832  
SKU #: **S588042**  
Version: **1**  
Analysis #: **414853**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Assay(Iodometric titration)	97.5-102.5 (%)	102.47000 %
loss on drying(108°C/constant wt.)	8~12 (%)	9.57663 %
Specific Rotation [ $\alpha$ ] <sub>20</sub> /D(c=8 in 6N HCl)	-8~-5 (°)	-5.86 °
Appearance(S588042)	White to Almost white powder to crystalline	White to Almost white powder to crystalline
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager