

## Certificate of Analysis

Date of Testing: 2023-11-06 12:27:49  
Date of Next Testing: 2026-11-05 12:27:49  
Product Name: **D-Cysteine Hydrochloride Monohydrate**  
CAS Number: 207121-46-8  
Specifications & Purity: 98%  
Lot #: K2302601  
SKU #: **S588042**  
**Analysis: 285449**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Assay(Iodometric titration)	97.5-102.5 (%)	100.54000 %
Specific Rotation [ $\alpha$ ] <sub>20</sub> /D(c=8 in 6N HCl)	-8~-5 (°)	-5.10 °
loss on drying(108°C/constant wt.)	8-12 (%)	8.74962 %
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