

## Certificate of Analysis

Date of Testing: 2022-03-15 09:20:01  
Date of Next Testing: 2026-03-14 09:20:01  
Product Name: **L-Cystine dimethyl ester dihydrochloride**  
CAS Number: 32854-09-4  
Specifications & Purity: 97%  
Lot #: C2209621  
SKU #: **C117941**  
**Analysis:** **072947**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.03100 %
Specific Rotation [α] <sub>20</sub> /D(c=4 in MeOH)	-37--35 (°)	-35.01°
Appearance (C117941)	white to beige powder or crystals	white to beige powder or crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager