

## Certificate of Analysis

Date of Testing: 2023-02-16 21:37:58  
Date of Next Testing: 2025-02-15 21:37:58  
Product Name: **L-Cystine , disodium salt**  
CAS Number: 64704-23-0  
Specifications & Purity: 98%  
Lot #: B2311128  
SKU #: **L134101**  
Analysis: **142389**

Parameter	Limit Values	Result
Water by Karl Fischer	0-8 (%)	0.80 %
PH	9.5-11	10.05
Specific Rotation [α] <sub>20</sub> /D(c=1 in 1mol/L HCl)	-179~-164 (°)	-165.00 °
Purity(HPLC area)	98-100 (%)	98.01 %
Appearance (L134101)	White or light yellow powder	White or light yellow powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager