

## Certificate of Analysis

Date of Testing: 2023-10-09 17:14:19  
Date of Next Testing: 2025-10-08 17:14:19  
Product Name: **L-Cystine , disodium salt**  
CAS Number: 64704-23-0  
Specifications & Purity: 98%  
Lot #: I2328454  
SKU # **L134101**  
Analysis: **268008**

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in 1mol/L HCl)	-179--164 (°)	-169.22 °
Water by Karl Fischer	0-8 (%)	3.57 %
PH	9.5-11	10.32
Purity(HPLC area)	98-100 (%)	98.52 %
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