

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-08-23 13:24:29  
Date of Next Testing: 2025-08-22 13:24:29  
Product Name: **L-Cystine , disodium salt**  
CAS Number: 64704-23-0  
Specifications & Purity: 98%  
Lot #: H2307487  
SKU #: **L134101**  
Analysis: **256970**

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in 1mol/L HCl)	-179--164 (°)	-167.16 °
Water by Karl Fischer	0-8 (%)	5.42 %
PH	9.5-11	10.62
Purity(HPLC area)	98-100 (%)	98.02 %
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