

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-27 14:13:43  
 Date of Next Testing: 2026-11-26 14:13:43  
 Product Name: **L-Homocysteine thiolactone hydrochloride**  
 CAS Number: 31828-68-9  
 Specifications & Purity:  $\geq 95\%$   
 Lot #: K2321229  
 SKU #: **S169532**  
 Version: **1**  
 Analysis #: **215013**  
 Storage Temperature: Room temperature

| Parameter                                                       | Limit Values          | Result                |
|-----------------------------------------------------------------|-----------------------|-----------------------|
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ | 19-23 (°)             | 21.25°                |
| Nitrogen by Elemental Analysis                                  | 8.8-9.4 (%)           | 9.12 %                |
| Carbon by Elemental Analysis                                    | 30.5-31.7 (%)         | 31.22 %               |
| Appearance (S169532Form)                                        | Powder and solid      | Powder and solid      |
| Appearance (S169532Color)                                       | White to Yellow       | White to Yellow       |
| Proton NMR spectrum                                             | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager