

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-16 13:44:06  
 Date of Next Testing: 2025-11-15 13:44:06  
 Product Name: (6R,7R)-7-Amino-3-Hydroxymethyl-8-Oxo-5-Thia-1-Aza-Bicyclo[4.2.0.]Oct-2-Ene-2-Carboxylic Acid  
 CAS Number: 15690-38-7  
 Specifications & Purity: ≥98%  
 Lot #: K2214766  
 SKU #: R303007  
 Version: 3  
 Analysis #: 117507  
 Storage Temperature: Room temperature, Desiccated

| Parameter                                                          | Limit Values              | Result                    |
|--------------------------------------------------------------------|---------------------------|---------------------------|
| Purity(HPLC area)                                                  | 98-100 (%)                | 98.02000 %                |
| Specific rotation [α] <sub>20/D</sub> (C=0.25, pH 7.0 Buffer sol.) | 105-120 (°)               | 119.24000 °               |
| Appearance(R303007)                                                | White or off-white Powder | White or off-white powder |
| NMR Spectrum 1H                                                    | Conforms to Structure     | Conforms to Structure     |



John Su  
QA & QC Manager