

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-14 14:00:49

Date of Next Testing: 2025-07-03 14:00:49

Product Name: **Glycyrrhizic acid ammonium salt**

CAS Number: 53956-04-0

Specifications & Purity: analytical standard

Lot #: G2307299

SKU #: **G109354**

Version: **0**

Analysis #: **236029**

Storage Temperature: Store at 2-8°C

| Parameter                                                              | Limit Values                 | Result                       |
|------------------------------------------------------------------------|------------------------------|------------------------------|
| Purity(HPLC)                                                           | 90-100 (%)                   | 96.70300 %                   |
| Specific Rotation [α] <sub>20</sub> /D(c=1 in EtOH 50% v/v)(anhydrous) | 49-54 (°)                    | 50.20400 °                   |
| Purity(Titration by HClO <sub>4</sub> )                                | 98-102 (%)                   | 99.85000 %                   |
| Appearance (G109354)                                                   | White or light yellow powder | White or light yellow powder |
| Infrared spectrum                                                      | Conforms to Structure        | Conforms to Structure        |



John Su  
QA & QC Manager