

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-15 14:01:05

Date of Next Testing: 2025-06-14 14:01:05

Product Name: **Glycyrrhizic acid ammonium salt**

CAS Number: 53956-04-0

Specifications & Purity: $\geq 70\%$ (HPLC)

Lot #: I2110259

SKU #: **G109353**

Version: **0**

Analysis #: **241615**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	70-100 (%)	81.86800 %
Sulfate Ash	0-0.2 (%)	0.05000 %
α -glycyrrhizic acid (HPLC)	0-10 (%)	4.50000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH } 50\% \text{ v/v})$	49-54 (°)	49.16800 °
Loss on drying	0-6 (%)	3.00000 %
Heavy metal (as Pb)	0-20 (ppm)	8.00000 ppm
Residual solvents	0-1 (%)	0.05000 %
Appearance (G109353)	White to Yellow Powder	White to Yellow Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager