

Certificate of Analysis

Date of Testing: 2023-02-02 10:36:22

Date of Next Testing: 2027-02-01 10:36:22

Product Name: **18 β -Glycyrrhetic acid**

CAS Number: 471-53-4

Specifications & Purity: Moligand™, $\geq 97\%$

Lot #: A2329653

SKU #: **G109797**

Version: **0**

Analysis #: **158886**

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ (c=1 in MeOH)	154-170 (°)	160.14°
Purity(HPLC)	97-100 (%)	98.20100 %
Purity(Neutralization titration)	96.5-103.5 (%)	101.49 %
Appearance (G109797)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in CHCL ₃ , Colorless to light yellow, Slightly hazy, 50mg/mL	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager