

## Certificate of Analysis

Date of Testing: 2025-05-07 11:36:43

Date of Next Testing: 2029-05-06 11:36:43

Product Name: **18 $\beta$ -Glycyrrhetic acid**

CAS Number: 471-53-4

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

Lot #: D2524078

SKU #: **G109797**

Version: **0**

Analysis #: **158886**

| Parameter                                                                           | Limit Values                          | Result                                |
|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Specific Rotation $[\alpha]_{20/D(c=1 \text{ in MeOH})}$                            | 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 <sub>3</sub> , Colorless to light yellow, Slightly hazy, 50mg/mL | pass                                  | Pass                                  |
| Infrared spectrum                                                                   | Conforms to Structure                 | Conforms to Structure                 |



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