

## Certificate of Analysis

Date of Testing: 2022-03-25 12:22:57

Date of Next Testing: 2026-03-24 12:22:57

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

CAS Number: 471-53-4

Specifications & Purity: 97%

Lot #: C2218443

SKU #: **G109797**

Analysis: **073052**

| Parameter                                                                           | Limit Values                          | Result                                |
|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Specific Rotation [a] <sub>D</sub> <sup>20</sup> (c=1 in MeOH)                      | 154-170 (°)                           | 169.72 °                              |
| Purity(HPLC)                                                                        | 97-100 (%)                            | 97.00700 %                            |
| Purity(Neutralization titration)                                                    | 96.5-103.5 (%)                        | 99.91 %                               |
| Appearance (G109797)                                                                | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Infrared spectrum                                                                   | Conforms to Structure                 | Conforms to Structure                 |
| 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                                  |



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