

## Certificate of Analysis

Date of Testing: 2022-02-21 09:59:45

Date of Next Testing: 2026-02-20 09:59:45

Product Name: **Ursolic acid**

CAS Number: 77-52-1

Specifications & Purity:  $\geq 98\%$

Lot #: B2216052

SKU #: **U118635**

Version: **0**

Analysis #: **059021**

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

| Parameter                                                               | Limit Values              | Result                    |
|-------------------------------------------------------------------------|---------------------------|---------------------------|
| Carbon by Elemental Analysis                                            | 76.7-79.2 (%)             | 78.39%                    |
| Purity(HPLC)                                                            | 98-100 (%)                | 99.86200%                 |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in KOH EtOH sol.})$       | 62-66 (°)                 | 64.17°                    |
| Appearance (U118635)                                                    | White to Off-White Powder | White to Off-White Powder |
| Solubility in DMF , Colorless to Yellow Clear to Slightly Hazy, 50mg/ml | pass                      | Pass                      |
| Proton NMR spectrum                                                     | Conforms to Structure     | Conforms to Structure     |



John Su  
QA & QC Manager