

## Certificate of Analysis

Date of Testing: 2022-09-17 10:16:09

Date of Next Testing: 2026-09-16 10:16:09

Product Name: **Cholic acid**

CAS Number: 81-25-4

Specifications & Purity: 98%

Lot #: I2209295

SKU # **C103690**

Version **1**

Analysis #: **116942**

| Parameter                                                            | Limit Values          | Result                |
|----------------------------------------------------------------------|-----------------------|-----------------------|
| Purity (Titration by NaOH)                                           | 97.5-102.5 (%)        | 99.60 %               |
| Sulfate Ash                                                          | 0-0.1 (%)             | 0.05 %                |
| Heavy metal (as Pb)                                                  | 0-20 (ppm)            | 3.70 ppm              |
| Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in MeOH})$             | 35-37 (°)             | 35.89°                |
| Loss on drying(135°C)                                                | 0-1 (%)               | 0.29 %                |
| Purity(HPLC)                                                         | 98-100 (%)            | 99.58400 %            |
| Melting point                                                        | 197-202 (°C)          | 199.38000 °C          |
| Appearance (C103690)                                                 | white to beige powder | white to beige powder |
| Carbon NMR Spectrum                                                  | Conforms to Structure | Conforms to Structure |
| Solubility in MeOH , Colorless to Faint Yellow Clear to Hazy,50mg/ml | pass                  | Pass                  |



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