



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-474814  
Lot Number: SAMPLE  
Product Name: Taurocholic Acid-d5 Sodium Salt  
CAS Number: 81-24-3 (unlabeled)  
Molecular Formula:  $C_{26}H_{39}D_5NO_7S \cdot Na$   
Molecular Weight: 542.72  
Native Source: Synthetic

| Test                               | Specification | Result                                  |
|------------------------------------|---------------|-----------------------------------------|
| Appearance                         |               | White to off-white solid                |
| Identification ( $^1H$ -NMR)       |               | Consistent with structure               |
| Identification (Mass Spectrometry) |               | Consistent with structure               |
| Isotopic Purity                    |               | 98.1%                                   |
| Purity (TLC)                       |               | 98%                                     |
| Atmosphere                         |               | Inert gas                               |
| Melting Point                      |               | 184 - 190 °C                            |
| Solubility                         |               | Ethanol (slightly), Methanol (slightly) |
| Specific Rotation                  |               | +26.9° (c = 0.3, Ethanol)               |
| Carbon Content                     | 57.54%        | 55.78%                                  |
| Hydrogen Content                   | 8.18%         | 8.25%                                   |
| Nitrogen Content                   | 2.58%         | 2.67%                                   |
| Sodium Content                     |               | 4.2%                                    |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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