



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-499804  
Lot Number: SAMPLE  
Product Name: Dexamethasone 21-palmitate-d31  
CAS Number: 14899-36-6 (unlabeled)  
Molecular Formula:  $C_{38}H_{28}D_{31}FO_6$   
Molecular Weight: 662.06  
Native Source: Synthetic

| Test                               | Specification             | Result                       |
|------------------------------------|---------------------------|------------------------------|
| Appearance                         | White to off-white solid  | Complies                     |
| Identification (NMR)               | Consistent with structure | Complies                     |
| Identification (19F-NMR)           | Consistent with structure | Complies                     |
| Identification (Mass Spectrometry) | Consistent with structure | Complies                     |
| Isotopic Purity                    | > 95%                     | 95.6% (d0 = 0.36%)           |
| Purity                             |                           | 97%                          |
| Purity (HPLC)                      | > 95%                     | 99.37% (240 nm)              |
| Specific Rotation                  |                           | +56.4° (c = 0.5, Chloroform) |
| Carbon Content                     |                           | 69.11%                       |
| Hydrogen Content                   |                           | 9.27%                        |

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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