

**7 $\alpha$ ,24(R/S)-dihydroxycholestenone-d7**

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**700120P-1mg**

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|                          |   |
|--------------------------|---|
| <b>Molecular Weight</b>  | 423.68  |
| <b>Chemical Formula</b>  | C <sub>27</sub> H <sub>37</sub> D <sub>7</sub> O <sub>3</sub> |
| <b>Physical State</b>    | Powder  |
| <b>Storage</b>           | -20 °C  |
| <b>Expiration Date</b>   | One year from date of receipt                                 |
| <b>M Lot Number</b>      | 5189PGA010  |
| <b>Avanti Lot Number</b> | 700120P-1MG-A-010   |

| ANALYSIS                          | SPECIFICATION   | RESULTS                                       |
|-----------------------------------|---|---|
| Physical examination              | <b>Powder:</b> White solid which contains no foreign matter.  | Pass  |
| TLC<br>(9:1 Chloroform: Methanol) | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | All Pass                                      |
| HPLC-ELSD                         | NLT 99% (AUC)   | 100% (AUC)                                    |
| Proton NMR                        | NMR spectrum consistent with structure  | Consistent with structure                     |
| Mass Spectroscopy                 | [M+NH <sub>4</sub> ] <sup>+</sup> = 441.680 ± 1 amu   | [M+NH <sub>4</sub> ] <sup>+</sup> = 441.8 amu |

Approved by:

