

**7 $\alpha$ ,25-dihydroxycholesterol**

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**700080P-1mg**

**Page 1 of 1**

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>Molecular Weight</b>  | 418.652                                        |
| <b>Chemical Formula</b>  | C <sub>27</sub> H <sub>46</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>      | 5162PGH011                                     |
| <b>Avanti Lot Number</b> | 700080P-1MG-H-011                              |

| 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 reference structure                                                                                        | Consistent with structure                     |
| Mass Spectroscopy                 | [M+NH <sub>4</sub> ] <sup>+</sup> = 436.652 $\pm$ 1 amu                                                                                 | [M+NH <sub>4</sub> ] <sup>+</sup> = 436.8 amu |

Approved By: *Andriana Thomas*

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