7-dehydrocholesterol-d7

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>391.681</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula</td>
<td>C_{27}H_{37}D_{7}O</td>
</tr>
<tr>
<td>Physical State</td>
<td>Powder</td>
</tr>
<tr>
<td>Storage</td>
<td>-80°C</td>
</tr>
<tr>
<td>Expiration Date</td>
<td>One year from date of receipt</td>
</tr>
<tr>
<td>M Lot Number</td>
<td>5185PGE010</td>
</tr>
<tr>
<td>Avanti Lot Number</td>
<td>700116P-1MG-E-010</td>
</tr>
</tbody>
</table>

### ANALYSIS

#### Physical Examination
- **Powder**: White solid which contains no foreign matter

#### TLC (8:2 Hexane: Ethyl acetate)
- >99% Purity
- Ninhydrin: negative
- Iodine: one major spot
- Phosphorus: negative
- Charring: positive
- Water dip: one major spot

#### HPLC-ELSD
- NLT 99% (AUC)
- 99.8% (AUC)

#### Proton NMR
- NMR spectrum consistent with structure

#### Mass Spectroscopy
- [M+NH$_4$]$^+$ = 409.681 ± 1 amu
- [M+NH$_4$]$^+$ = 409.7 amu

Approved By: [Signature]

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