C16 Dihydroceramide (d18:0/16:0)
N-palmitoyl-D-erythro-sphinganine

**860634P-5mg**

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>539.917</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula</td>
<td>C_{34}H_{69}NO_{3}</td>
</tr>
<tr>
<td>Physical State</td>
<td>Powder</td>
</tr>
<tr>
<td>Storage</td>
<td>-20°C</td>
</tr>
<tr>
<td>Expiration Date</td>
<td>One year from date of receipt</td>
</tr>
<tr>
<td>M Lot Number</td>
<td>6060PHE022</td>
</tr>
<tr>
<td>Avanti Lot Number</td>
<td>860634P-5MG-E-022</td>
</tr>
</tbody>
</table>

**ANALYSIS**

<table>
<thead>
<tr>
<th>Physical Examination</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder: White solid which contains no foreign matter</td>
<td>Pass</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLC (9:1 Chloroform: Methanol)</th>
<th>&gt;99% Purity</th>
<th>Ninhydrin: negative</th>
<th>Iodine: one major spot</th>
<th>Phosphorus: negative</th>
<th>Charring: positive</th>
<th>Water dip: one major spot</th>
<th>All Pass</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Proton NMR</th>
<th>NMR spectrum consistent with structure</th>
<th>Consistent with structure</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mass Spectroscopy</th>
<th>Mass Spectroscopy</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>[M+H]^+ = 540.917 ± 1 amu</td>
<td>[M+H]^+ = 541.1 amu</td>
<td></td>
</tr>
</tbody>
</table>

Approved By: [Signature]

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