L-threo-sphingosine (d18:1)
(2S,3S,4E)-2-aminooctadec-4-ene-1,3-diol
860489P-5mg

**Molecular Weight**  
299.492

**Chemical Formula**  
C₁₈H₃₇NO₂

**Physical State**  
Powder

**Storage**  
-20 °C

**Expiration Date**  
One year from date of receipt

**M Lot Number**  
5949PHA012

**Avanti Lot Number**  
860489P-5MG-A-012

<table>
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<tr>
<th>ANALYSIS</th>
<th>SPECIFICATION</th>
<th>RESULTS</th>
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<td>Physical examination</td>
<td><strong>Powder:</strong> White solid which contains no foreign matter.</td>
<td>Pass</td>
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</table>
| TLC (80:20:2 Chloroform: Methanol: Ammonium Hydroxide) | >99% Purity  
Ninhydrin: positive  
Iodine: one major spot  
Phosphorus: negative  
Charring: positive  
Water dip: one major spot | All Pass |
| Proton NMR                     | NMR spectrum consistent with structure              | consistent with structure |
| Mass Spectroscopy              | [M+H]⁺ = 300.492 ± 1 amu                           | [M+H]⁺ = 300.4 amu  |

Approved by: