

**C16 Ceramide (d18:1/16:0)**

N-palmitoyl-D-erythro-sphingosine

**860516P-5mg**

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|                          |   |
|--------------------------|---|
| <b>Molecular Weight</b>  | 537.901   |
| <b>Chemical Formula</b>  | C <sub>34</sub> H <sub>67</sub> NO <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>      | 5968PHB020                                      |
| <b>Avanti Lot Number</b> | 860516P-5MG-B-020                               |

| ANALYSIS                           | SPECIFICATION   | RESULTS                        |
|------------------------------------|---|--------------------------------|
| Physical examination               | <b>Powder:</b> White solid which contains no foreign matter.  | Pass                           |
| TLC<br>(95:5 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                       |
| Proton NMR                         | NMR spectrum consistent with structure  | Consistent with structure      |
| Mass Spectroscopy                  | [M+H] <sup>+</sup> = 538.901 ± 1 amu  | [M+H] <sup>+</sup> = 539.0 amu |

Approved by:

