

**Brain SM**

Sphingomyelin (Brain, Porcine)

**860062P-500mg**
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|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| <b>Molecular Weight</b>  | 760.223 (average based on fatty acid distribution in product) |
| <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>      | 5870PPA139                                                    |
| <b>Avanti Lot Number</b> | 860062P-500MG-A-139                                           |

| ANALYSIS             | SPECIFICATION                                                                                                                               | RESULTS                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Physical Examination | <b>Powder:</b> White solid which contains no foreign matter                                                                                 | Pass                                                    |
| TLC                  | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: positive<br>Water dip: one major spot     | All Pass                                                |
| FAME (GC/FID)        | Consistent with historical data (not specifications):<br>16:0 = ~2%<br>18:0 = ~50%<br>20:0 = ~5%<br>22:0 = ~7%<br>24:0 = ~5%<br>24:1 = ~21% | Consistent with historical data                         |
| Mass Spectroscopy    | [M+H] <sup>+</sup> = 731.61 ± 1 amu<br>(predominant species)                                                                                | [M+H] <sup>+</sup> = 731.8 amu<br>(predominant species) |
| Proton NMR           | NMR spectrum consistent with structure                                                                                                      | Consistent with structure                               |

 Approved By: *Anderson Thomas*

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