

## Brain SM

Sphingomyelin (Brain, Porcine)

860062C-25mg

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|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| <b>Molecular Weight</b>  | 760.223 (average based on fatty acid distribution in product) |
| <b>Physical State</b>    | Chloroform                                                    |
| <b>Storage</b>           | -20°C                                                         |
| <b>Expiration Date</b>   | One year from date of receipt                                 |
| <b>M Lot Number</b>      | 5870CJA136                                                    |
| <b>Avanti Lot Number</b> | 860062C-25MG-A-136                                            |

| ANALYSIS                | SPECIFICATION                                                                                                                               | RESULTS                                              |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Physical Examination    | <b>Chloroform:</b> Clear solution 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 (predominant species)                                                                                   | [M+H] <sup>+</sup> = 731.6 amu (predominant species) |
| Proton NMR              | NMR spectrum consistent with structure                                                                                                      | Consistent with structure                            |
| Quantitative Proton NMR | NMR spectrum consistent with structure                                                                                                      | Consistent with structure                            |
| UV Oxidation            | NMT 5% total wavelengths                                                                                                                    | 0.14%                                                |
| Ion Chromatography      | Run and Report                                                                                                                              | 0.3173 wt % F <sup>-</sup>                           |
| Peroxide Value          | Run and Report                                                                                                                              | 8.5091 mEq/kg                                        |

*Melissa Bolin*

Approved By:

For Research Use Only. Not For Human Use.

**18:1 Cy7 PE**

**1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(Cyanine 7)**

**810337C-1mg**

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