

## Egg SM

Sphingomyelin (Egg, Chicken)

860061P-1g

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|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| <b>Molecular Weight</b>  | 710.965 (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>      | 5869PQC121                                                    |
| <b>Avanti Lot Number</b> | 860061P-1G-C-121                                              |

| 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 | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: positive<br>Water dip: one major spot |
| Proton NMR           | NMR spectrum consistent with structure                                                                                                  | Consistent with structure                                                                                                               |
| Mass Spectroscopy    | $[M+H]^+ = 704.0 \pm 1$ amu<br>(predominant species)                                                                                    | $[M+H]^+ = 703.7$ amu<br>(predominant species)                                                                                          |

Approved By: *Meredith Bayfoot*

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