

## 18:0 Lyso PS

1-stearoyl-2-hydroxy-sn-glycero-3-phospho-L-serine (sodium salt)

858144P-1mg

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|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| <b>Molecular Weight</b>  | 547.595                                             |
| <b>Chemical Formula</b>  | C <sub>24</sub> H <sub>47</sub> NPO <sub>9</sub> Na |
| <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>      | 5860PGG011                                          |
| <b>Avanti Lot Number</b> | 858144P-1MG-G-011                                   |

| ANALYSIS             | SPECIFICATION                                                                                                                           | RESULTS                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Physical Examination | <b>Powder:</b> White solid which contains no foreign matter                                                                             | Pass                                                              |
| TLC                  | >99% Purity<br>Ninhydrin: positive<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: negative<br>Water dip: one major spot | All Pass                                                          |
| FAME (GC/FID)        | NLT 99% 18:0 (AUC)                                                                                                                      | 99.6% (AUC)                                                       |
| Proton NMR           | NMR spectrum consistent with structure                                                                                                  | Consistent with structure                                         |
| Mass Spectroscopy    | [M-H] <sup>-</sup> = 546.595 ± 1 amu<br>[M-Na] <sup>-</sup> = 524.595 ± 1 amu                                                           | [M-H] <sup>-</sup> = 546.4 amu<br>[M-Na] <sup>-</sup> = 524.4 amu |
| Phosphorus Assay     | 95-105% recovery phosphorus                                                                                                             | 101.9% recovery                                                   |
| Calcium (ICP/MS)     | NMT 500 ppm                                                                                                                             | None Detected                                                     |

Approved By:



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