

**16:0-20:4 PA**

**1-palmitoyl-2-arachidonoyl-sn-glycero-3-phosphate (sodium salt)**

**840859C-25mg**

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|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Molecular weight</b>  | 718.916                                            |
| <b>Chemical formula</b>  | C <sub>39</sub> H <sub>68</sub> NaO <sub>8</sub> P |
| <b>Physical State</b>    | Chloroform                                         |
| <b>Storage</b>           | -20°C                                              |
| <b>Expiration Date</b>   | Three months from date of receipt                  |
| <b>M Lot Number</b>      | 5562CJC042                                         |
| <b>Avanti Lot Number</b> | 840859C-25MG-C-042                                 |

| ANALYSIS             | SPECIFICATION                                                                                                                           | RESULTS                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Physical Examination | <b>Chloroform:</b> Clear solution with 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 |
| UV Oxidation         | NMT 5% total all wavelengths                                                                                                            | 0.57% total all wavelengths                                                                                                             |
| Proton NMR           | NMR spectrum consistent with structure                                                                                                  | Consistent with structure                                                                                                               |
| FAME (GC/FID)        | 50 ± 5% 16:0 (AUC)<br>50 ± 5% 20:4 (AUC)<br>NLT 99% total (AUC)                                                                         | 45.4% 16:0 (AUC)<br>54.4% 20:4 (AUC)<br>99.8% total (AUC)                                                                               |
| Mass Spectroscopy    | [M-Na] <sup>+</sup> = 695.9 ± 1 amu                                                                                                     | [M-Na] <sup>+</sup> = 695.7 amu                                                                                                         |
| Calcium (ICP/MS)     | NMT 500 ppm                                                                                                                             | None Detected                                                                                                                           |

Approved By:



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