

## Brain PS

L- $\alpha$ -phosphatidylserine (Brain, Porcine) (sodium salt)

840032P-500mg

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|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| <b>Molecular Weight</b>  | 824.966 (average based on fatty acid distribution in product) |
| <b>Physical State</b>    | Powder                                                        |
| <b>Storage</b>           | -20°C                                                         |
| <b>Expiration Date</b>   | Three months from date of receipt                             |
| <b>M Lot Number</b>      | 5495PPA836                                                    |
| <b>Avanti Lot Number</b> | 840032P-500MG-A-836                                           |

| 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: positive<br>Water dip: one major spot | All Pass                        |
| UV Oxidation                | NMT 5% total all wavelengths                                                                                                            | 0.48% total                     |
| FAME (GC/FID)               | Consistent with historical data<br>18:0 = ~42%<br>18:1 = ~30%<br>20:4 = ~2%<br>22:6 = ~11%<br>Unknown = 15%                             | Consistent with historical data |
| Quantitative Phosphorus NMR | Run and Report                                                                                                                          | 16.50 mg/ml<br>100% PS          |
| Peroxide Value              | Run and Report                                                                                                                          | 12.6915 mEq/kg                  |
| HPLC-ELSD                   | NLT 99% (AUC)                                                                                                                           | 99.8% (AUC)                     |
| Phosphorus                  | Run and Report                                                                                                                          | 19.009 mg/ml                    |

Approved By: *Anderson Thomas*

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