**Brain PS**
L-α-phosphatidylserine (Brain, Porcine) (sodium salt)

**840032P-100mg**

<table>
<thead>
<tr>
<th><strong>Molecular Weight</strong></th>
<th>824.966 (average based on fatty acid distribution in product)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Powder</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>-20°C</td>
</tr>
<tr>
<td><strong>Expiration Date</strong></td>
<td>Three months from date of receipt</td>
</tr>
<tr>
<td><strong>M Lot Number</strong></td>
<td>5495PLB824</td>
</tr>
<tr>
<td><strong>Avanti Lot Number</strong></td>
<td>840032P-100MG-B-824</td>
</tr>
</tbody>
</table>

### ANALYSIS | SPECIFICATION | RESULTS |
---|---|---|
| **Physical Examination** | **Powder:** White solid which contains no foreign matter | Pass |
| **TLC** | >99% Purity  
Ninhydrin: positive  
Iodine: one major spot  
Phosphorus: positive  
Charring: positive  
Water dip: one major spot | All Pass |
| **UV Oxidation** | NMT 5% total all wavelengths | 0.84% total |
| **Calcium (ICP/MS)** | NMT 500ppm | None Detected |
| **FAME (GC/FID)** | Consistent with historical data  
18:0 = ~42%  
18:1 = ~30%  
20:4 = ~2%  
22:6 = ~11%  
Unknown = 15% | Consistent with historical data |
| **Mass Spectroscopy** | [M-Na] = 788.966 ± 1 amu  
or  
[M-Na+2H]+ = 790.966 ± 1 amu  
(predominant species)  
and  
-NL 87 Scan: [M-87] = 788.966 ± 1 amu  
(predominant species) | [M-Na] = 789.0 amu |

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*NL 87 Scan = Neutral Loss Scan of 87 amu

Approved By: [Signature]

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