## Brain PS

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

### 840032P-500mg

**Certificate of Analysis**

### Molecular Weight
824.966 (average based on fatty acid distribution in product)

### Physical State
Powder

### Storage
-20°C

### Expiration Date
Three months from date of receipt

### M Lot Number
5495PPA824

### Avanti Lot Number
840032P-500MG-A-824

### 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*
- \([M-\text{Na}] = 788.966 \pm 1 \text{ amu}\)
- \([M-\text{Na+2H}] = 790.966 \pm 1 \text{ amu}\) (predominant species)
- \(-\text{NL 87 Scan: [M-87]} = 788.966 \pm 1 \text{ amu}\) (predominant species)
  - **[M-Na] = 789.0 amu**

* - NL 87 Scan = Neutral Loss Scan of 87 amu

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