

**Brain PI(4)P**

 L- $\alpha$ -phosphatidylinositol-4-phosphate (Brain, Porcine) (ammonium salt)

**840045P-5mg**

Page 1 of 1

|                          |   |
|--------------------------|---|
| <b>Molecular Weight</b>  | 974.764 (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>      | 5506PHG045  |
| <b>Avanti Lot Number</b> | 840045P-5MG-G-045   |

| ANALYSIS  | SPECIFICATION  | RESULTS  |
|---|--|--|
| Physical Examination  | <b>Powder:</b> White solid which contains no foreign matter  | Pass   |
| TLC<br>(45:35:7.7:2.3 Chloroform: Methanol:<br>Water: Ammonium Hydroxide) | >99% Purity<br>Ninhydrin: negative<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   | 1.28% total  |
| Phosphorus Assay  | 95-105% recovery phosphorus  | Pass   |
| Calcium (ICP/MS)  | NMT 500 ppm  | None Detected  |
| Proton NMR  | NMR spectrum consistent with structure   | Consistent with structure  |
| Phosphorus NMR  | NMR spectrum consistent with structure   | Consistent with structure  |
| Mass Spectroscopy   | [M-2NH <sub>4</sub> +H] <sup>-</sup> = 966.764 ± 1 amu<br>[M-2NH <sub>4</sub> ] <sup>2-</sup> = 482.882 ± 1 amu<br>(predominant species) | [M-2NH <sub>4</sub> +H] <sup>-</sup> = 966.6 amu<br>[M-2NH <sub>4</sub> ] <sup>2-</sup> = 482.9 amu<br>(predominant species) |

Approved By:



For Research Use Only. Not For Human Use.