

**Brain PI(4)P**

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

**840045P-5mg**
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<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>	5506PHE044
<b>Avanti Lot Number</b>	840045P-5MG-E-044

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	<b>Powder:</b> White solid which contains no foreign matter	Pass
TLC (45:35:7.7:2.3 Chloroform: Methanol: Water: Ammonium Hydroxide)	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	All Pass
UV Oxidation	NMT 5% total all wavelengths	1.81% total
Phosphorus Assay	95-105% recovery phosphorus	95.7% recovery
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 [M-2NH <sub>4</sub> ] <sup>2-</sup> = 482.882 ± 1 amu (predominant species)	[M-2NH <sub>4</sub> +H] <sup>-</sup> = 966.1 amu [M-2NH <sub>4</sub> ] <sup>2-</sup> = 482.6 amu (predominant species)

Approved By:



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