

**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>	5506PHA043
<b>Avanti Lot Number</b>	840045P-5MG-A-043

ANALYSIS	SPECIFICATION	SOP
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	0.92% total all wavelengths
Calcium (ICP/MS)	NMT 500ppm	NMT 100 ppm
Proton NMR	NMR spectrum consistent with structure	Pass
Phosphorus NMR	NMR spectrum consistent with structure	Pass
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> = 965.3 amu [M-2NH <sub>4</sub> ] <sup>2-</sup> = 482.2 amu (predominant species)

Approved by:

