

## Brain PI(4,5)P2

L- $\alpha$ -phosphatidylinositol-4,5-bisphosphate (Brain, Porcine) (ammonium salt)

840046P-25mg

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<b>Molecular Weight</b>	1096.385 (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>	5507PJB093
<b>Avanti Lot Number</b>	840046P-25MG-B-093

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	<b>Powder:</b> White powder 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	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Phosphorus NMR	NMR spectrum consistent with structure	Consistent with structure
UV Oxidation	NMT 5% total wavelengths	1.16% total
ICP/MS	NMT 500 ppm	129 ppm
Mass Spectroscopy	[M-3NH <sub>4</sub> +2H] <sup>-</sup> = 1045.4 ± 1 amu [M-3NH <sub>4</sub> +H] <sup>2-</sup> = 522.2 ± 1 amu (predominant species)	[M-3NH <sub>4</sub> +2H] <sup>-</sup> = 1045.5 amu [M-3NH <sub>4</sub> +H] <sup>2-</sup> = 522.2 amu (predominant species)

Approved By:



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