

Brain PI(4)P

L- α -phosphatidylinositol-4-phosphate (Brain, Porcine) (ammonium salt)

840045P-1mg

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Molecular Weight	974.764 (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	5506PGD049
Avanti Lot Number	840045P-1MG-D-049

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: 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	2.99% total
Calcium (ICP/MS)	NMT 500 ppm	149 ppm
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Phosphorus NMR	NMR spectrum consistent with structure	Consistent with structure
Quantitative Phosphorus NMR	Run and Report	37.93 mg/ml
Mass Spectroscopy	[M-2NH ₄ +H] ⁺ = 966.764 \pm 1 amu [M-2NH ₄] ²⁻ = 482.882 \pm 1 amu (predominant species)	[M-2NH ₄] ²⁻ = 482.7 amu (predominant species)

Approved By:



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