

**18:1 PI(4,5)P2**

**1,2-dioleoyl-sn-glycero-3-phospho-(1'-myo-inositol-4',5'-bisphosphate) (ammonium salt)**

**850155P-500ug**

**Page 1 of 1**

<b>Molecular Weight</b>	1074.158
<b>Chemical Formula</b>	C <sub>45</sub> H <sub>94</sub> N <sub>3</sub> O <sub>19</sub> P <sub>3</sub>
<b>Physical State</b>	Powder
<b>Storage</b>	-20°C
<b>Expiration Date</b>	One year from date of receipt
<b>M Lot Number</b>	5606PFB014
<b>Avanti Lot Number</b>	850155P-500UG-B-014

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
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Phosphorus NMR	NMR spectrum consistent with structure	Consistent with structure
Mass Spectroscopy	[M-3NH <sub>4</sub> +H] <sup>2-</sup> = 510.579 ± 1 amu [M-3NH <sub>4</sub> +2H] <sup>-</sup> = 1022.158 ± 1 amu	[M-3NH <sub>4</sub> +H] <sup>2-</sup> = 510.1 amu [M-3NH <sub>4</sub> +2H] <sup>-</sup> = 1022.3 amu
Quantitative Phosphorus NMR	Run and Report	95.6% recovery
Calcium (ICP/MS)	NMT 500 ppm	307.6 ppm

Approved By:



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