

rac-16:0 PI(5)P-d5

1,2-dipalmitoyl-rac-glycero(d5)-3-phospho-(1'-myo-inositol-5'-phosphate) (ammonium salt)

850173P-100ug

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Molecular Weight	930.10
Chemical Formula	C ₄₁ H ₈₁ D ₅ N ₂ O ₁₆ P ₂
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5614PDB010
Avanti Lot Number	850173P-100UG-B-010

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: negative Water dip: one major spot	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: negative 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
Phosphorus Assay	95-105% Recovery phosphorus	100.9% Recovery phosphorus
Mass Spectroscopy	[M-2NH ₄ +H] ⁻ = 895.10 ± 1 amu [M-2NH ₄] ²⁻ = 447.05 ± 1 amu	[M-2NH ₄ +H] ⁻ = 894.52 amu [M-2NH ₄] ²⁻ = 446.75 amu

Approved by:

