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330500-10EA

Storage: 2-8°C
Expiration date: One year from date of receipt
M Lot Number: 5026NAB015
Avanti Lot Number: 330500-10EA-015

ANALYSIS	SPECIFICATION	SOP
Confirm release of 16:0 PI (RDP-850141)	TLC Analysis, >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: negative Water dip: one major spot	All Pass
	Proton NMR NMR spectrum consistent with structure	Consistent with structure
	Mass Spectroscopy $[M-NH_4]^-$ = 810.062 ± 1 amu	$[M-NH_4]^-$ = 809.7 amu
	Calcium (ICP/MS) Mass NMT 500ppm	None detected
Confirm release of 18:1 PI(3,5) P2 (RDP-850154)	TLC Analysis, >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 historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Mass Spectroscopy $[M-3NH_4+H]^{2-}$ = 510.579 ± 1 amu $[M-3NH_4+2H]^-$ = 1022.158 ± 1 amu	$[M-3NH_4+H]^{2-}$ = 510.3 amu
	Calcium (ICP/MS) NMT 500ppm	None detected
Confirm Release of 18:1 PI (RDP-850149)	TLC Analysis, >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	All Pass

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	Proton NMR NMR spectrum consistent with reference structure	Consistent with historical
	Mass Spectroscopy $[M\text{-}NH_4]^-$ = 862.137 ± 1 amu	$[M\text{-}NH_4]^-$ = 862.2 amu
Confirm release of Liver PI (RDP-840042)	TLC Analysis, >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	0.89% total all wavelengths
	FAME (GC/FID) Consistent with historical data 18:0 = ~46% 18:1 = ~8% 18:2 = ~6% 20:3 = ~13% 20:4 = ~17%	Consistent with historical
	Calcium (ICP/MS) NMT 500ppm	None detected
	Mass Spectroscopy $[M\text{-}Na]^-$ = 885.133 ± 1 amu (predominant species)	$[M\text{-}Na]^-$ = 885.6 amu
Confirm release of 18:1 PI(4,5) P2 (RDP-850155)	TLC Analysis, >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 historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Mass Spectroscopy $[M\text{-}3NH_4\text{+}H]^{2-}$ = 510.579 ± 1 amu $[M\text{-}3NH_4\text{+}2H]^-$ = 1022.158 ± 1 amu	$[M\text{-}3NH_4\text{+}H]^{2-}$ = 510.4 amu

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Confirm release of 18:1 PI(3)P (RDP-850150)	Calcium (ICP/MS) NMT 500ppm	None detected
	TLC Analysis, >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 historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Mass Spectroscopy $[M-2NH_4]^{2-}$ = 470.574 ± 1 amu $[M-2NH_4+H]^{-}$ = 942.147 ± 1 amu	$[M-2NH_4]^{2-}$ = 470.7 amu
	Calcium (ICP/MS) NMT 500ppm	None detected
Confirm release of Soy PI (RDP-840044)	TLC Analysis, >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	0.82% total all wavelengths
	FAME (GC/FID) Consistent with historical data 16:0 = ~31% 18:0 = ~7% 18:1 = ~5% 18:2 = ~50% 18:3 = ~7%	Consistent with historical
	Calcium (ICP/MS) NMT 500ppm	None detected

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	Mass Spectroscopy $[M-Na]^-$ = 843.647 ± 1 amu (predominant species) and -Prec 223 Scan: $[M-Na]^-$ = 843.647 ± 1 amu (predominant species)	Pass
	TLC Analysis, >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	All Pass
Confirm release of 18:1 PI(3,4,5)P3 (RDP-850156)	Proton NMR NMR spectrum consistent with structure	Consistent with historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Mass Spectroscopy $[M-4NH_4+2H]^{2-}$ = 550.584 ± 1 amu $[M-4NH_4+3H]^-$ = 1102.168 ± 1 amu	$[M-4NH_4+2H]^{2-}$ = 550.6 amu
Confirm release of 18:1 PI(5)P (RDP-850152)	TLC Analysis, >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 historical
	Mass Spectroscopy $[M-2NH_4]^{2-}$ = 470.574 ± 1 amu $[M-2NH_4+H]^-$ = 942.147 ± 1 amu	$[M-2NH_4+H]^-$ = 942.1 amu
	Calcium (ICP/MS) NMT 500ppm	None detected
Confirm release of Brain PI(4)P (RDP-840045)	TLC Analysis, >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive	All Pass

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	Water dip: one major spot	
	UV Oxidation NMT 5% total all wavelengths	0.88% total all wavelengths
	Calcium (ICP/MS) NMT 500ppm	None detected
	Proton NMR NMR spectrum consistent with structure	Consistent with historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Mass Spectroscopy $[M-2NH_4+H]^-$ = 966.764 ± 1 amu $[M-2NH_4]^{2-}$ = 482.882 ± 1 amu (predominant species)	$[M-2NH_4]^{2-}$ = 482.6 amu
Confirm release of DMPC (RDP-850345)	TLC Analysis, >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: negative Water dip: one major spot	All Pass
	FAME (GC/FID) NLT 99% 14:0 (AUC)	99.8% 14:0 (AUC)
	Mass Spectroscopy $[M+H]^+$ = 678.933 ± 1 amu	$[M+H]^+$ = 679.0 amu
Confirm release of 18:1 PI(3,4)P2 (RDP-850153)	TLC Analysis, >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 historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Mass Spectroscopy $[M-3NH_4+H]^{2-}$ = 510.579 ± 1 amu $[M-3NH_4+2H]^-$ = 1022.158 ± 1 amu	$[M-3NH_4+H]^{2-}$ = 510.7 amu
Confirm release of Brain PI(4,5)P2 (RDP-840046)	TLC Analysis, >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	All Pass

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	UV Oxidation NMT 5% total all wavelengths	1.86% total all wavelengths
	Proton NMR NMR spectrum consistent with structure	Consistent with historical
	Phosphorus NMR NMR spectrum consistent with structure	Consistent with historical
	Calcium (ICP/MS) NMT 500ppm	None detected
Lipid Content	Contains 1 ug each of 13 lipid species	Not applicable
Packaging	Packaged in foil bag under argon gas and heat sealed	Not applicable

Approved by: