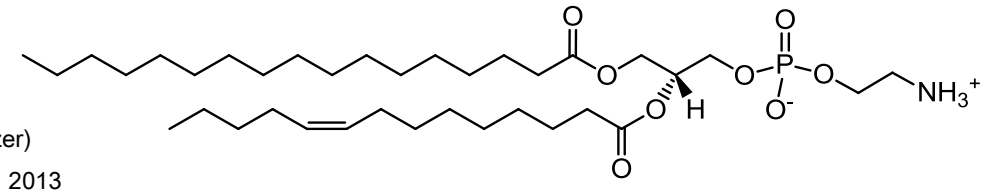
LIPIDMAPS™ Mass Spec Internal Standard LM1104

1-heptadecanoyl-2-(9Z-tetradecenoyl)-sn-glycero-3-phosphoethanolamine

17:0-14:1 PE

LIPIDMAPS™ Compound ID: LMGP02010005

Molecular Weight:	675.917
Exact Mass:	675.484
Molecular Formula:	$C_{36}H_{70}NO_8P$
Storage:	-20° C (Freezer)
Manufacture Date:	September 4, 2013
Expiration Date:	One year from date of receipt
Physical Form:	Methanol Solution (1ml per vial)
Concentration:	9.64 µg/ml (14.26 µM)
Lot Number:	LM1104-LM27-001C
MLOT:	6411WAC001



Product Specifications

Test	Limits	Result
Mass Spec	Consistent with Structure, $[M+H]^+$ = 676.5 ±1amu	Pass
Quantitative LC/MS	Run and Report	9.64 µg/ml 14.26 µM
HPLC/ELSD	NLT 99% Purity (AUC)	100% AUC
GC-FAME	NLT 99% Purity (AUC) (14:1+17:0)	100% AUC
Phosphorus NMR	Consistent with Structure	Pass
Proton NMR	Consistent with Structure	Pass
TLC Analysis (Mobile Phase 65:25:4 Chloroform:Methanol:Water)	R_f consistent with structure, NLT 99% Purity	Pass
Ninhydrin	Positive	Positive
Iodine	One Major Spot	One Spot
Phosphorus	Positive	Positive
Char	Positive	Positive
Wet Dip	One Major Spot	One Spot

Approved by:

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