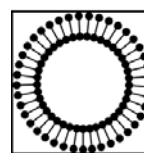
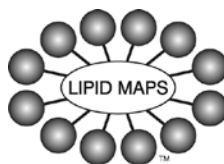


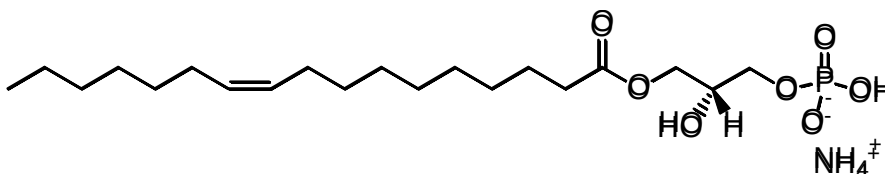
1-(10Z-heptadecenoyl)-sn-glycero-3-phosphate (ammonium salt)

17:1 Lyso PA

LIPIDMAPS™ Compound ID: LMGP10050002

**Avanti®**
POLAR LIPIDS, INC.

Molecular Weight: 439.524
 Exact Mass: 439.27
 Molecular Formula: C₂₀H₄₂NO₇P
 Storage: -20° C (Freezer)
 Manufacture Date: May 10, 2018
 Expiration Date: One year from date of receipt
 Physical Form: Methanol Solution (1ml per vial)
 Concentration: 9.79 µg/ml (22.26 µM)
 Lot Number: LM1701-LM1-015E
 MLOT: 6424WAE015

**Product Specifications**

Test	Limits	Result
Mass Spec	Consistent with Structure, [M-NH ₄] ⁺ = 421.3 ± 1amu	Pass
Quantitative LC/MS	Run and Report	9.79 µg/ml 22.26 µM
HPLC/ELSD	NLT 99% Purity (AUC)	99.3% AUC
Calcium Content by ICP/MS	NMT 500ppm	None Detected
GC-FAME	NLT 99% Purity (AUC)	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	Negative	Negative
Iodine	One Major Spot	One Spot
Phosphorus	Positive	Positive
Char	Positive	Positive
Wet Dip	One Major Spot	One Major Spot

Approved by: _____

Avanti Polar Lipids, Inc. 700 Industrial Park Drive, Alabaster, AL 35007-9105, USA

• (800) 227-0651 • (205) 663-2494 • Fax (800) 229-1004 • (205) 663-0756

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