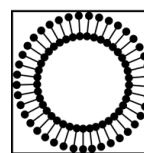
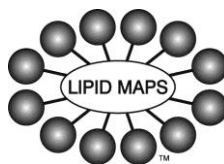


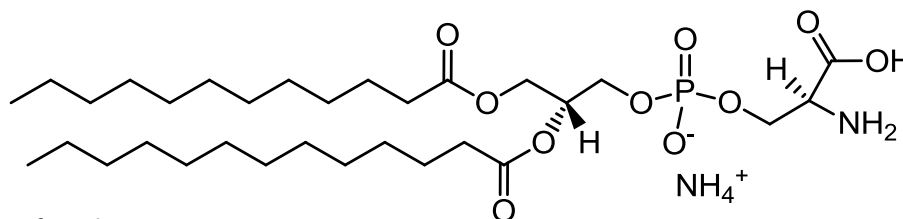
**1-dodecanoyl-2-tridecanoyl-sn-glycero-3-phospho-L-serine (ammonium salt)**

12:0-13:0 PS

LIPIDMAPS™ Compound ID: LMGP03010001


**Avanti**<sup>®</sup>  
POLAR LIPIDS, INC.

Molecular Weight: 654.813  
 Exact Mass: 654.422  
 Molecular Formula: C<sub>31</sub>H<sub>63</sub>N<sub>2</sub>O<sub>10</sub>P  
 Storage: -20° C (Freezer)  
 Manufacture Date: July 17, 2017  
 Expiration Date: One year from date of receipt  
 Physical Form: Methanol Solution (1ml per vial)  
 Concentration: 10.11 µg/ml (15.43 µM)  
 Lot Number: LM1300-LM1-023F  
 MLOT: 6415WAF023



### Product Specifications

Test	Limits	Result
Mass Spec	Consistent with Structure, [M-NH <sub>4</sub> ] <sup>-</sup> = 636.4 ± 1amu	Pass
Quantitative LC/MS	Run and Report	10.11 µg/ml 15.43 µM
HPLC/ELSD	NLT 99% Purity (AUC)	100% AUC
GC-FAME	NLT 99% Purity (AUC) (12:0 +13:0)	100% AUC
Calcium Content by ICP/MS	NMT 500ppm Calcium	None Detected
Phosphorus NMR	Consistent with Structure	Pass
Proton NMR	Consistent with Structure	Pass
TLC Analysis (Mobile Phase 65:25:4 Chloroform:Methanol:Water)	R <sub>f</sub> consistent with structure, NLT 99% Purity	Pass
Ninhydrin	Positive	Positive
Iodine	One Major Spot	One Spot
Phosphorus	Positive	Positive
Char	Negative	Negative
Wet Dip	One Major Spot	One Spot

Approved by:

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

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