

MPLA (PHAD[®])

 Monophosphoryl Lipid A (Synthetic) (PHAD[®])

699800P-1mg
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Molecular Weight	1763.469
Chemical Formula	C ₉₆ H ₁₈₄ N ₃ O ₂₂ P
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5086PGA031
Avanti Lot Number	699800P-1MG-A-031

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC (75:25:3 Chloroform: Methanol: Water)	>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 structure
Mass Spectroscopy	[M-NH ₄] ⁺ = 1745.469 ± 1 amu	[M-NH ₄] ⁺ = 1746.0 amu
HPLC-ELSD	NLT 99% (AUC)	100% (AUC)
Phosphorus NMR	NMR spectrum consistent with structure	Consistent with structure

 Approved By: *Anderson Thomas*

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