

4A-MPLA

Monophosphoryl Tetra-acyl Lipid A

699854P-1mg

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Molecular Weight	1326.76
Chemical Formula	C ₆₈ H ₁₃₂ N ₃ O ₁₉ P
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5090PGB015
Avanti Lot Number	699854P-1MG-B-015

ANALYSIS	SPECIFICATION	RESULTS
Physical examination	Powder: White solid which contains no foreign matter.	Pass
TLC (65:25:4 Chloroform:Methanol:Water)	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	All Pass
HPLC-ELSD	NLT 99% (AUC)	99.6% (AUC)
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Phosphorus NMR	NMR spectrum consistent with structure	Consistent with structure
Mass Spectroscopy	[M-NH ₄] ⁺ = 1308.76 ± 1 amu	[M-NH ₄] ⁺ = 1308.4 amu

Approved by:

