

3D-PHAD[®]
Monophosphoryl 3-Deacyl Lipid A (Synthetic)
699852P-1mg
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Molecular Weight	1537.114
Chemical Formula	C ₈₂ H ₁₅₈ N ₃ O ₂₀ P
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5089PGA018
Avanti Lot Number	699852P-1MG-A-018

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot
HPLC-ELSD	NLT 99% (AUC)	99.8 % (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] ⁺ = 1519.1 ± 1 amu	[M-NH ₄] ⁺ = 1518.1 amu

Approved By:



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