

3D-PHAD[®]

Monophosphoryl 3-Deacyl Lipid A (Synthetic) Pat No. 9,241,988

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	5089PGB012
Avanti Lot Number	699852P-1MG-B-012

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	Pass
HPLC-ELSD	NLT 99% (AUC)	100% (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] ⁺ = 1519.114 ± 1 amu	[M-NH ₄] ⁺ = 1518.6 amu

Approved by:

