

**MPLA (PHAD®)**

Monophosphoryl Lipid A (Synthetic) (PHAD®)

699800P-5mg

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<b>Molecular Weight</b>	1763.469
<b>Chemical Formula</b>	C <sub>96</sub> H <sub>184</sub> N <sub>3</sub> O <sub>22</sub> P
<b>Physical State</b>	Powder
<b>Storage</b>	-20 °C
<b>Expiration Date</b>	One year from date of receipt
<b>M Lot Number</b>	5086PHA029
<b>Avanti Lot Number</b>	699800P-5MG-A-029

ANALYSIS	SPECIFICATION	RESULTS
Physical examination	<b>Powder:</b> 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
HPLC-ELSD	NLT 99% (AUC)	100% (AUC)
Proton NMR	NMR spectrum consistent with structure	Pass
Phosphorus NMR	NMR spectrum consistent with structure	Pass
Mass Spectroscopy	[M-NH <sub>4</sub> ] <sup>-</sup> = 1745.469 ± 1 amu	[M-NH <sub>4</sub> ] <sup>-</sup> = 1745.7 amu

Approved by:

