

### Certificate of Analysis

<b>Product Name</b>	Monophosphoryl lipid A (MPLA; Glucopyranosyl lipid A)
<b>Catalog No.</b>	V50923
<b>Batch No.</b>	V5092302

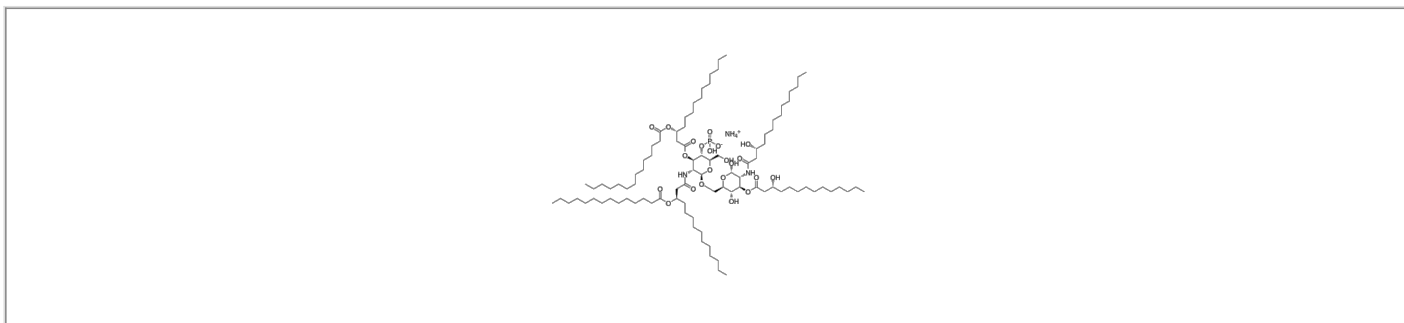
#### 1. Physical and Chemical Properties

<b>Appearance</b>	Powder
<b>Molecular Formula</b>	C <sub>96</sub> H <sub>184</sub> N <sub>3</sub> O <sub>22</sub> P
<b>Molecular Weight</b>	1763.5008
<b>Purity</b>	=99.6%
<b>CAS No.</b>	1246298-63-4
<b>Production Date</b>	
<b>Retest Date</b>	2028-12-20

#### 2. Analytical Data

Test Item	Specification	Result
HPLC	≥98%	=99.6%
NMR	Consistent with structure	Confirms

#### 3. Structure



#### 4. Storage Condition

<b>Storage Condition</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month
<b>Note:</b> Please store this product in a sealed and protected environment, avoid exposure to moisture.			

**Products are for research use only • Not for human or veterinary use**