

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-08-20 15:15:34
 Date of Next Testing: 2026-08-20 15:15:34
 Product Name: **Monophosphoryl Lipid A (Synthetic)(MPLA)**
 CAS Number: 1246298-63-4
 Specifications & Purity: $\geq 99\%$
 Lot #: H2407565
 SKU #: **M130160**
 Version: **0**
 Analysis #: **376928**
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	100.00000 %
Hydrogen by Elemental Analysis	10.1-10.7 (%)	10.30000 %
Oxygen by Elemental Analysis	19.4-20.2 (%)	19.60000 %
Nitrogen by Elemental Analysis	2.1-2.6 (%)	2.10000 %
Phosphorus by Elemental Analysis	1.5-2 (%)	1.70000 %
Carbon by Elemental Analysis	63.9-65.6 (%)	64.30000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager