

Certificate of Analysis

Date of Testing: 2022-05-09 11:28:57

Date of Next Testing: 2024-05-08 11:28:57

Product Name: **Monophosphoryl Lipid A (Synthetic)**

CAS Number: 1246298-63-4

Specifications & Purity: 99%

Lot #: D2230237

SKU #: **M130160**

Analysis: **085083**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Hydrogen by Elemental Analysis	10.1-10.7 (%)	10.40 %
Oxygen by Elemental Analysis	19.4-20.2 (%)	19.90 %
Nitrogen by Elemental Analysis	2.1-2.6 (%)	2.40 %
Phosphorus by Elemental Analysis	1.5-2 (%)	1.70 %
Carbon by Elemental Analysis	63.9-65.6 (%)	64.60 %
Purity(HPLC)	99-100 (%)	100.00000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager