

Certificate of Analysis

Date of Testing: 2023-11-14 11:04:29

Date of Next Testing: 2025-11-13 11:04:29

Product Name: **Spermine**

CAS Number: 71-44-3

Specifications & Purity: 98%

Lot #: A2221088

SKU #: **S109704**

Version: **0**

Analysis #: **295027**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.02 %
Water by Karl Fischer	0-3 (%)	1.09 %
Appearance (S109704)	White solid or amorphous semi-solid	White solid or amorphous semi-solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear colorless solution at 50mg/ml	pass	Pass



John Su
QA & QC Manager