

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-10 15:24:39
 Date of Next Testing: 2025-07-09 15:24:39
 Product Name: **Spermine**
 CAS Number: 71-44-3
 Specifications & Purity: Moligand™, ≥98%
 Lot #: J2111065
 SKU #: **S109704**
 Version: **0**
 Analysis #: **249477**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.15600 %
Water by Karl Fischer	0-3 (%)	1.31400 %
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