

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

### Certificate of Analysis

Date of Testing: 2025-11-13 14:09:47  
Date of Next Testing: 2027-11-13 14:09:47  
Product Name: **Spermine**  
CAS Number: 71-44-3  
Specifications & Purity: Moligand™, for cell culture, ≥98%(GC)  
Lot #: J2531130  
SKU #: **S113079**  
Version: **0**  
Analysis #: **608866**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.90%
Appearance (S113079)	clear or white amorphous semisolid	clear or white amorphous semisolid
Cell Culture Test	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear colorless ,50 mg/ml in water	pass	Pass



John Su  
QA & QC Manager