

## Certificate of Analysis

Date of Testing: 2023-07-10 15:25:50  
Date of Next Testing: 2025-07-09 15:25:50  
Product Name: **Spermine**  
CAS Number: 71-44-3  
Specifications & Purity: for cell culture,  $\geq 98.0\%$ (GC)  
Lot #: J2111066  
SKU #: **S113079**  
Version: **0**  
Analysis #: **249478**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.16 %
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



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QA & QC Manager