

## Certificate of Analysis

Date of Testing: 2023-06-15 10:27:21  
Date of Next Testing: 2025-06-14 10:27:21  
Product Name: **Spermine**  
CAS Number: 71-44-3  
Specifications & Purity: for cell culture, ≥98.0%(GC)  
Lot #: I2109145  
SKU #: **S113079**  
**Analysis:** **241372**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.61 %
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