

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-15 13:40:41  
 Date of Next Testing: 2028-03-14 13:40:41  
 Product Name: **Spermidine**  
 CAS Number: 124-20-9  
 Specifications & Purity: Moligand™, ≥99%  
 Lot #: C2406034  
 SKU #: **S107071**  
 Version: **1**  
 Analysis #: **131374**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                                       | Limit Values                             | Result                                   |
|---------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|
| Spermine                                                                        | 0-0.2 (%)                                | 0.12000 %                                |
| Purity(GC)                                                                      | 99-100 (%)                               | 99.70000 %                               |
| Water by Karl Fischer                                                           | 0-1 (%)                                  | 0.10000 %                                |
| Proton NMR spectrum                                                             | Conforms to Structure                    | Conforms to Structure                    |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow, Clear to Hazy, c=5% | pass                                     | Pass                                     |
| Appearance (S107071)                                                            | Colorless to pale yellow liquid or solid | Colorless to pale yellow liquid or solid |



John Su  
QA & QC Manager