

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-02-08 10:09:00  
 Date of Next Testing: 2027-01-29 10:09:00  
 Product Name: **Hexadecyl trimethyl ammonium bromide(CTAB)**  
 CAS Number: 57-09-0  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: A2522080  
 SKU #: **H108983**  
 Version: **0**  
 Analysis #: **449970**  
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                                        | Limit Values                                  | Result                                        |
|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Insoluble matter                                                 | 0-0.1 (%)                                     | 0.00000 %                                     |
| Lead(Pb)                                                         | 0-0.005 (%)                                   | 0.00000 %                                     |
| Iron(Fe)                                                         | 0-0.005 (%)                                   | 0.00000 %                                     |
| Ignition Residue (as sulfate)                                    | 0-0.1 (%)                                     | 0.09860 %                                     |
| Sulfate(SO42-)                                                   | 0-0.05 (%)                                    | 0.00000 %                                     |
| Water by Karl Fischer                                            | 0-0.5 (%)                                     | 0.14370 %                                     |
| Purity(Titration by AgNO3)                                       | 99-101 (%)                                    | 100.98000 %                                   |
| Melting point                                                    | 248-251 (°C)                                  | 250.98000 °C                                  |
| Appearance (H108983)                                             | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |
| Proton NMR spectrum                                              | Conforms to Structure                         | Conforms to Structure                         |
| Solubility in H2O , Colorless to Faint Yellow, pass Clear, 0.1 M |                                               | Pass                                          |



John Su  
QA & QC Manager