

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-01-11 11:25:38  
 Date of Next Testing: 2029-01-10 11:25:38  
 Product Name: **N,N,N',N'',N'''-Pentakis(2-hydroxypropyl)diethylenetriamine**  
 CAS Number: 17121-34-5  
 Specifications & Purity:  $\geq 95\%$   
 Lot #: A2506324  
 SKU #: **N159463**  
 Version: **1**  
 Analysis #: **450588**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                        | Limit Values                                 | Result                                       |
|----------------------------------|----------------------------------------------|----------------------------------------------|
| Purity(Neutralization titration) | 94.5-105.5 (%)                               | 95.60000 %                                   |
| Appearance(N159463)              | Light orange to Yellow to Green clear liquid | Light orange to Yellow to Green clear liquid |
| Proton NMR spectrum              | Conforms to Structure                        | Conforms to Structure                        |



John Su  
QA & QC Manager