

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-22 12:12:36

Date of Next Testing: 2027-03-21 12:12:36

Product Name: Tri-tert-butyl 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetate

CAS Number: 137076-54-1

Specifications & Purity:  $\geq 97\%$

Lot #: C23161441

SKU #: T162093

Version: 1

Analysis #: 148839

Storage Temperature: Store at -20°C, Argon charged

| Parameter           | Limit Values                                        | Result                                              |
|---------------------|-----------------------------------------------------|-----------------------------------------------------|
| Purity(HPLC area)   | 97-100 (%)                                          | 98.52000 %                                          |
| Proton NMR spectrum | Conforms to Structure                               | Conforms to Structure                               |
| Appearance(T162093) | White to Off white to Gray to Red powder to crystal | White to Off white to Gray to Red powder to crystal |



John Su  
QA & QC Manager