

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

## Certificate of Analysis

Date of Testing: 2025-05-09 09:07:41

Date of Next Testing: 2029-05-08 09:07:41

Product Name: **1,4,7,10-Tetraazacyclododecane Tetrahydrochloride**

CAS Number: 10045-25-7

Specifications & Purity:  $\geq 98.0\%$

Lot #: E2507095

SKU #: **S60047**

Version: **0**

Analysis #: **509959**

Storage Temperature: Room temperature, Argon charged

| Parameter                                        | Limit Values          | Result                |
|--------------------------------------------------|-----------------------|-----------------------|
| Purity(HPLC)                                     | 98-100 (%)            | 98.10600 %            |
| Purity(O2 AgNO3 titration with after combustion) | 97.5-102.5 (%)        | 99.53 %               |
| Proton NMR spectrum                              | Conforms to Structure | Conforms to Structure |

Quality Assurance : Xiaoyong Tan

Quality Control : Yunfei Zou

