

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-12 14:42:14

Date of Next Testing: 2029-09-11 14:42:14

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

CAS Number: 10045-25-7

Specifications & Purity: $\geq 98\%$

Lot #: K2129206

SKU #: **T162089**

Version: **0**

Analysis #: **571318**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.10400 %
Purity(O2 AgNO3 titration with after combustion)	97.5-102.5 (%)	99.53 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager