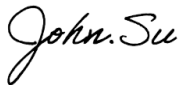


ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-20 10:31:40  
Date of Next Testing: 2029-10-19 10:31:40  
Product Name: **Tris(4-carbazoyl-9-ylphenyl)amine (TCTA)**  
CAS Number: 139092-78-7  
Specifications & Purity:  $\geq 98\%$   
Lot #: J2509804  
SKU #: **T123987**  
Version: **0**  
Analysis #: **575010**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	85.2-88 (%)	87.67%
Nitrogen by Elemental Analysis	6.9-8.1 (%)	7.49%
Purity(HPLC)	98-100 (%)	99.14800%
Appearance (T123987)	White to Grey to Orange to Green Powder or Crystals and/or Chunks	White to Grey to Orange to Green Powder or Crystals and/or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager