

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-12-11 10:33:50  
 Date of Next Testing: 2029-12-10 10:33:50  
 Product Name: **Thiophene-2-boronic acid pinacol ester**  
 CAS Number: 193978-23-3  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: C2205554  
 SKU #: **T120116**  
 Version: **0**  
 Analysis #: **617763**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                    | Limit Values                      | Result                            |
|------------------------------|-----------------------------------|-----------------------------------|
| Sulfur by Elemental Analysis | 14.5-16 (%)                       | 15.41000 %                        |
| Carbon by Elemental Analysis | 54.6-59.8 (%)                     | 57.05700 %                        |
| Purity(GC)                   | 98-100 (%)                        | 99.49000 %                        |
| Appearance (T120116)         | white to beige powder or crystals | white to beige powder or crystals |
| Infrared spectrum            | Conforms to Structure             | Conforms to Structure             |
| Proton NMR spectrum          | Conforms to Structure             | Conforms to Structure             |



John Su  
QA & QC Manager