

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-18 14:01:46  
Date of Next Testing: 2027-12-18 14:01:46  
Product Name: [4-(3,6-Dimethoxy-9H-carbazol-9-yl)butyl]phosphonic Acid  
CAS Number: 2922526-56-3  
Specifications & Purity: ≥98%  
Lot #: L2412792  
SKU #: D493958  
Version: 1  
Analysis #: 442964  
Storage Temperature: Protected from light, Room temperature, Argon charged

| Parameter           | Limit Values                            | Result                                  |
|---------------------|---|---|
| Purity(HPLC area)   | 98-100 (%)                              | 98.27 %                                 |
| Melting point       | 193-199 (°C)                            | 198.67000 °C                            |
| Appearance(D493958) | White to Light yellow powder to crystal | White to Light yellow powder to crystal |
| Proton NMR spectrum | Conforms to Structure                   | Conforms to Structure                   |



John Su  
QA & QC Manager