

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-05 11:39:15  
 Date of Next Testing: 2029-07-04 11:39:15  
 Product Name: **3,3',5,5'-Tetramethylbenzidine (TMB)**  
 CAS Number: 54827-17-7  
 Specifications & Purity:  $\geq 99\%$ (HPLC)  
 Lot #: G2502389  
 SKU #: **T100416**  
 Version: **0**  
 Analysis #: **532891**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                                    | Limit Values                                   | Result                                         |
|------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Melting point                                                                | 167-171 (°C)                                   | 169.80000 °C                                   |
| Purity(HPLC)                                                                 | 99-100 (%)                                     | 99.95000 %                                     |
| Carbon by Elemental Analysis                                                 | 79.2-80.7 (%)                                  | 79.84100 %                                     |
| Appearance (T100416)                                                         | White to Yellow to Beige<br>Powder or Crystals | White to Yellow to Beige<br>Powder or Crystals |
| Solubility in Ethyl Acetate , Faint Yellow to Dark Yellow, Clear to Hazy, 5% | pass                                           | Pass                                           |
| Infrared spectrum                                                            | Conforms to Structure                          | Conforms to Structure                          |



John Su  
QA & QC Manager