

## Certificate of Analysis

Date of Testing: 2025-09-03 09:49:20

Date of Next Testing: 2029-09-02 09:49:20

Product Name: **3,3',5,5'-Tetramethylbenzidine dihydrochloride**

CAS Number: 64285-73-0

Specifications & Purity: anhydrous, ≥98%

Lot #: I2502763

SKU #: **T105329**

Version: **0**

Analysis #: **569495**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                 | Limit Values                                       | Result                                             |
|-------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Purity(HPLC)                              | 98-100 (%)                                         | 99.96100 %                                         |
| Water by Karl Fischer                     | 0-1 (%)                                            | 0.21 %                                             |
| Purity(Titration by AgNO <sub>3</sub> )   | 98-100 (%)                                         | 98.65 %                                            |
| Appearance (T105329)                      | white to light brown powder or crystals            | white to light brown powder or crystals            |
| Proton NMR spectrum                       | Conforms to Structure                              | Conforms to Structure                              |
| Solubility in AcOH/H <sub>2</sub> O (1/2) | Clear to slightly hazy yellow to green, at 20mg/ml | Clear to slightly hazy yellow to green, at 20mg/ml |



John Su  
QA & QC Manager