

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-02 14:19:14
Date of Next Testing: 2026-09-01 14:19:14
Product Name: **3,3',5,5'-Tetramethylbenzidine dihydrochloride hydrate**
CAS Number: 207738-08-7
Specifications & Purity: $\geq 98\%$
Lot #: H2231022
SKU #: **T140620**
Analysis: **130865**
Storage Temperature: Store at -20°C , Argon charged

| Parameter | Limit Values | Result |
|---|--|--|
| Purity(Titration by AgNO ₃) | 98-100 (%) | 98.50 % |
| Purity(HPLC) | 98-100 (%) | 99.62700 % |
| Water by Karl Fischer | 0-12 (%) | 11.38 % |
| Appearance (T140620) | White to Light Yellow Powder or Crystals | White to Light Yellow Powder or Crystals |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in AcOH/H ₂ 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