

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-21 11:46:41
 Date of Next Testing: 2026-09-20 11:46:41
 Product Name: **N,N,N',N'-Tetramethyl-p-phenylenediamine dihydrochloride(TMPD)**
 CAS Number: 637-01-4
 Specifications & Purity: $\geq 98\%$
 Lot #: I2214193
 SKU #: **T106470**
 Version: **0**
 Analysis #: **114477**
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.69700%
Purity(Nonaqueous Titration)	97.5-102.5 (%)	99.89%
Appearance (T106470)	Off-White to Grey to Brown Powder	Off-White to Grey to Brown Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Purple to Brown, Clear to Hazy, 50mg/ml	pass	Pass



John Su
QA & QC Manager