

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-01 11:47:40  
Date of Next Testing: 2027-02-28 11:47:40  
Product Name: **N,N'-Diphenyl-N,N'-bis[4'-(diphenylamino)biphenyl-4-yl]benzidine**  
CAS Number: 167218-46-4  
Specifications & Purity: >98.0%(HPLC)(N)  
Lot #: B2323087  
SKU #: **N159569**  
Analysis: **166978**

Parameter	Limit Values	Result
Melting point	239-243 (°C)	240.82000 °C
Purity( total nitrogen )	98-100 (%)	99.98 %
Purity(HPLC)	98-100 (%)	98.34600 %
Appearance(N159569)	White to Orange to Green powder to crystal	White to Orange to Green powder to crystal
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager