

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-12 18:00:24  
Date of Next Testing: 2026-12-11 18:00:24  
Product Name: **3,3'-Di(9H-carbazol-9-yl)-1,1'-biphenyl**  
CAS Number: 342638-54-4  
Specifications & Purity:  $\geq 98\%$   
Lot #: L2205177  
SKU #: **D154448**  
Version: **1**  
Analysis #: **120910**

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	98.75 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager