

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: 4,4'-Bis(N-carbazolyl)-1,1'-biphenyl,98%

ITEM NUMBER: B113207  
BRAND: Aladdin  
CAS NUMBER: 58328-31-7  
MDL NUMBER: MFCD00093417  
FORMULA: C<sub>36</sub>H<sub>24</sub>N<sub>2</sub>  
MOLECULAR WEIGHT: 484.59

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	White to Off-White to brown Solid, Powder ,Crystal		
Carbon	86.1 %	92.4 %	92.4 %
Melting point	281 ° C	285 ° C	285 ° C
Nitrogen(N)	5.4 %	6.1 %	6.1 %
Proton NMR spectrum	Conforms to Structure		
Purity(HPLC)	98 %	100 %	100 %