

## Certificate of Analysis

Date of Testing: 2023-02-01 10:37:47  
Date of Next Testing: 2027-01-31 10:37:47  
Product Name: **N,N'-Bis(4-chlorophenyl)-N,N'-diphenyl-1,4-phenylenediamine**  
CAS Number: 113703-66-5  
Specifications & Purity: 98%  
Lot #: A2330380  
SKU #: **B121455**  
Analysis: **143888**

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	98.93%
Appearance(B121455)	White to Light yellow to Green powder to crystal	white to light yellow to green powder to crystal
Infrared spectrum	Conforms to Structure	Conforms to Structure
NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager