

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-14 13:26:02  
 Date of Next Testing: 2029-10-13 13:26:02  
 Product Name: **N,N'-Di-sec-butyl-p-phenylenediamine**  
 CAS Number: 101-96-2  
 Specifications & Purity:  $\geq 96\%$   
 Lot #: L2122053  
 SKU #: **D111086**  
 Version: **0**  
 Analysis #: **586526**  
 Storage Temperature: Argon charged

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Ash                                 | 0-0.2 (%)             | 0.11 %                |
| Refractive index n <sub>20</sub> /D | 1.533-1.539           | 1.54                  |
| Density (20°C)                      | 0.939-0.944           | 0.94                  |
| Purity(GC)                          | 96-100 (%)            | 97.29 %               |
| Appearance (D111086)                | Red to brown liquid   | Red to brown liquid   |
| Proton NMR spectrum                 | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager