

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-27 11:31:28  
Date of Next Testing: 2027-09-26 11:31:28  
Product Name: **4-Nitro-o-phenylenediamine**  
CAS Number: 99-56-9  
Specifications & Purity: 97%  
Lot #: I2321721  
SKU #: **N109498**  
Analysis: **273797**

| Parameter                       | Limit Values                                       | Result   |
|---------------------------------|--|--|
| 2,4-Dinitroaniline              | 0-1 (%)  | 0.23%  |
| Purity(HPLC)                    | 97-100 (%)   | 98.37900%  |
| Melting point                   | 198-205 (°C)                                       | 204.60000 °C                                       |
| Appearance (N109498)            | Orange to Red powder                               | Orange to Red powder                               |
| Proton NMR spectrum             | Conforms to Structure                              | Conforms to Structure                              |
| Solubility in EtOH/1N HCl (3/2) | Orange to Dark Red Brown, Clear to Turbid, 50mg/ml | Orange to Dark Red Brown, Clear to Turbid, 50mg/ml |



John Su  
QA & QC Manager