

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-01 13:30:09  
 Date of Next Testing: 2025-05-31 13:30:09  
 Product Name: **1-Benzhydrylpiperazine**  
 CAS Number: 841-77-0  
 Specifications & Purity:  $\geq 98\%$ (GC)  
 Lot #: E23251235  
 SKU #: **B134038**  
 Version: **0**  
 Analysis #: **211516**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                    | Limit Values                                    | Result                                          |
|------------------------------|-------------------------------------------------|-------------------------------------------------|
| Purity(GC)                   | 98-100 (%)                                      | 98.21700 %                                      |
| Purity(Nonaqueous Titration) | 97.5-102.5 (%)                                  | 99.63000 %                                      |
| Melting point                | 91-95 (°C)                                      | 91.53000 °C                                     |
| Appearance (b134038)         | white to yellow powder, crystals, and/or chunks | white to yellow powder, crystals, and/or chunks |
| Proton NMR spectrum          | Conforms to Structure                           | Conforms to Structure                           |



John Su  
QA & QC Manager