

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-07-11 18:19:32  
 Date of Next Testing: 2028-07-10 18:19:32  
 Product Name: **1-(2-Chlorophenyl)piperazine**  
 CAS Number: 39512-50-0  
 Specifications & Purity:  $\geq 98\%$ (GC)  
 Lot #: G2603337  
 SKU #: **C136306**  
 Version: **1**  
 Analysis #: **728158**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                           | Limit Values                     | Result                           |
|-------------------------------------|----------------------------------|----------------------------------|
| Purity(GC)                          | 98-100 (%)                       | 99.37700 %                       |
| Refractive index n <sub>20</sub> /D | 1.581-1.585                      | 1.58100                          |
| Appearance (C136306)                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                 | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager