

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-10-30 16:31:58  
 Date of Next Testing: 2028-10-29 16:31:58  
 Product Name: **Piperazinehydroiodide**  
 CAS Number: 56310-12-4  
 Specifications & Purity:  $\geq 99.5\%$  (4 Times Purification)  
 Lot #: J2428560  
 SKU #: **P494138**  
 Version: **2**  
 Analysis #: **422710**  
 Storage Temperature: Protected from light, Room temperature, Argon charged

| Parameter                                | Limit Values                                | Result                                                |
|------------------------------------------|---------------------------------------------|-------------------------------------------------------|
| Purity(Nonaqueous Titration)(As drybase) | 99-101 (%)                                  | 99.70000 %                                            |
| Appearance(P494138)                      | Off-white to light yellow powder or crystal | White to Off-White to Light yellow Powder or Crystals |
| NMR Spectrum 1H                          | Conforms to structure                       | Conforms to Structure                                 |



John Su  
QA & QC Manager