

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-24 09:46:15  
 Date of Next Testing: 2026-10-23 09:46:15  
 Product Name: **4-Picoline**  
 CAS Number: 108-89-4  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: L2007163  
 SKU #: **P105226**  
 Version: **0**  
 Analysis #: **288608**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                           | Limit Values               | Result                     |
|-------------------------------------|----------------------------|----------------------------|
| Water by Karl Fischer               | 0-0.2 (%)                  | 0.03010 %                  |
| Density (20°C)                      | 0.954-0.957                | 0.95560                    |
| Refractive index n <sub>20</sub> /D | 1.504-1.506                | 1.50530                    |
| Purity(GC)                          | 98-100 (%)                 | 98.44000 %                 |
| Appearance (P105226)                | Colorless to Yellow Liquid | Colorless to Yellow Liquid |
| Proton NMR spectrum                 | Conforms to Structure      | Conforms to Structure      |



John Su  
QA & QC Manager