

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-23 19:49:39  
Date of Next Testing: 2027-02-22 19:49:39  
Product Name: **Nicotine Bi-L-(+)-tartrate Dihydrate**  
CAS Number: 6019-06-3  
Specifications & Purity: >98.0%(HPLC)  
Lot #: B2318269  
SKU #: **N159378**  
Analysis: **177206**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.70000 %
Water by Karl Fischer	6.7-8 (%)	7.60 %
Specific Rotation [α] <sub>20</sub> /D(c=10 in H <sub>2</sub> O)	23-27 (°)	25.40 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager