

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-06 14:05:25  
Date of Next Testing: 2023-12-06 14:05:25  
Product Name: **R-(-)-Apomorphine hydrochloride hemihydrate**  
CAS Number: 41372-20-7  
Specifications & Purity: 98%  
Lot #: K2212049  
SKU #: **A276058**  
**Analysis: 146486**  
Storage Temperature: Store at -20°C, Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(Titration by AgNO <sub>3</sub> )	97.5-102.5 (%)	100.10 %
Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)	-53~-42.8 (°)	-48.00 °
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager