

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-05-20 15:13:43  
Date of Next Testing: 2025-05-20 15:13:43  
Product Name: **R-(-)-Apomorphine hydrochloride hemihydrate**  
CAS Number: 41372-20-7  
Specifications & Purity: 98%  
Lot #: D2430033  
SKU #: **A276058**  
Version: **1**  
Analysis #: **347626**  
Storage Temperature: Store at -20°C, Argon charged, Desiccated

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



John Su  
QA & QC Manager