

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-10-24 10:14:35

Date of Next Testing: 2027-10-23 10:14:35

Product Name: **N-Benzylcinchonidinium Chloride**

CAS Number: 69257-04-1

Specifications & Purity: $\geq 98\%$

Lot #: J2320107

SKU #: **B120844**

Version: **1**

Analysis #: **289292**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Carbon by Elemental Analysis	72.3-76 (%)	74.36000 %
Nitrogen by Elemental Analysis	6.4-6.9 (%)	6.50000 %
Purity(HPLC)	98-100 (%)	99.80000 %
Purity(Nonaqueous Titration)	98-100 (%)	98.66000 %
Specific Rotation $[\alpha]_{20/D}(c=0.5g/100ml \text{ in } H_2O)$	-180~-170 (°)	-173.87600 °
Appearance (B120844)	White to pink to light red powder	White to pink to light red powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager