

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-13 09:49:44

Date of Next Testing: 2027-03-12 09:49:44

Product Name: **N-Benzylcinchoninium Chloride [Chiral Phase-Transfer Catalyst]**

CAS Number: 69221-14-3

Specifications & Purity: $\geq 99\%$

Lot #: E1931059

SKU #: **B120854**

Version: **0**

Analysis #: **197780**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=0.4 \text{ in MeOH:H}_2\text{O}=1:5)$	165-172 ($^{\circ}$)	166.90000 $^{\circ}$
Purity(Titration by AgNO ₃)	99-100 (%)	99.23300 %
Appearance (B120854)	White to faint beige powder,crystals or fibers	White to faint beige powder,crystals or fibers
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager