

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-17 09:59:38

Date of Next Testing: 2029-09-16 09:59:38

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

CAS Number: 69221-14-3

Specifications & Purity:  $\geq 99\%$

Lot #: L2106442

SKU #: **B120854**

Version: **0**

**Analysis #:** **572845**

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 ( $^{\circ}$ )                         | 171.88600 $^{\circ}$                           |
| Purity(Titration by AgNO <sub>3</sub> )                                    | 99-100 (%)                                     | 99.10800 %                                     |
| 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