

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-08-09 17:05:14  
 Date of Next Testing: 2026-08-08 17:05:14  
 Product Name: **3-Cyclohexyl-D-alanine Methyl Ester Hydrochloride**  
 CAS Number: 144644-00-8  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: H2305019  
 SKU #: **C483555**  
 Version: **2**  
 Analysis #: **245480**  
 Storage Temperature: Room temperature

| Parameter                                                        | Limit Values             | Result                   |
|------------------------------------------------------------------|--------------------------|--------------------------|
| Purity(HPLC area)                                                | 98-100 (%)               | 99.00700 %               |
| Specific rotation $[\alpha]_{20/D}(C=0.768g/100ml \text{ MeOH})$ | -23.9~-19.9 (°)          | -23.87000 °              |
| NMR Spectrum 1H                                                  | Conforms to structure    | Conforms to Structure    |
| Appearance(C483555)                                              | White to off-white Solid | White to off-white solid |



John Su  
QA & QC Manager