

## Certificate of Analysis

Date of Testing: 2024-03-16 13:44:06  
Date of Next Testing: 2027-03-16 13:44:06  
Product Name: **(S)-(+)-Alanine**  
CAS Number: 56-41-7  
Specifications & Purity: for synthesis  
Lot #: C2408620  
SKU #: **S432937**  
**Analysis:** **331915**  
Storage Temperature: Room temperature

| Parameter   | Limit Values           | Result                 |
|---|------------------------|------------------------|
| Assay(Titration by HClO <sub>4</sub> )                    | 99-100 (%)             | 99.35 %                |
| Specific Rotation [α] <sub>20</sub> /D(c=5 in 1mol/L HCl) | 13-15 (°)              | 13.28 °                |
| Appearance(S432937)                                       | White Powder or Chunks | White Powder or Chunks |
| Infrared spectrum   | Conforms to Structure  | Conforms to Structure  |



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QA & QC Manager