

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-06 11:20:12  
Date of Next Testing: 2027-07-05 11:20:12  
Product Name: **D-Biotin**  
CAS Number: 58-85-5  
Specifications & Purity: 98%  
Lot #: G2301048  
SKU #: **B105433**  
Version: **0**  
Analysis #: **154248**  
Storage Temperature: Store at 2-8°C

| Parameter  | Limit Values                          | Result                                |
|--|---------------------------------------|---------------------------------------|
| Loss on drying   | 0-1 (%)                               | 0.14 %                                |
| Specific Rotation [α] <sub>20</sub> /D(c=2 in 0.1N NaOH)                       | 89.5-91.5 (°)                         | 89.63°                                |
| Sulfate Ash  | 0-0.1 (%)                             | 0.06 %                                |
| Purity(Neutralization titration)   | 98-100 (%)                            | 99.86 %                               |
| Appearance (B105433)   | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Solubility in 2M NH <sub>4</sub> OH , Colorless to light yellow,Clear,50 mg/ml | pass                                  | Pass                                  |
| Infrared spectrum  | Conforms to Structure                 | Conforms to Structure                 |



John Su  
QA & QC Manager