

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-01-11 10:39:52  
 Date of Next Testing: 2027-01-10 10:39:52  
 Product Name: **L-Histidine monohydrate monohydrochloride**  
 CAS Number: 5934-29-2  
 Specifications & Purity: Moligand™, ≥99%  
 Lot #: A2309617  
 SKU #: **H106210**  
 Version: **0**  
 Analysis #: **177626**  
 Storage Temperature: Room temperature

| Parameter                                              | Limit Values                    | Result                          |
|--------------------------------------------------------|---------------------------------|---------------------------------|
| Sulfate(SO42-)                                         | 0-200 (ppm)                     | 100.00000 ppm                   |
| Other amino acids                                      | 0-0.5 (%)                       | 0.02030 %                       |
| Sulfate Ash                                            | 0-0.1 (%)                       | 0.00110 %                       |
| Heavy metal (as Pb)                                    | 0-10 (ppm)                      | 5.80000 ppm                     |
| pH                                                     | 3-5                             | 3.50000                         |
| Iron(Fe)                                               | 0-10 (ppm)                      | 2.33000 ppm                     |
| Specific Rotation [α] <sub>20</sub> /D(c=11 in 6N HCl) | 9-10.3 (°)                      | 9.20000 °                       |
| Loss on drying                                         | 0-2 (%)                         | 0.05000 %                       |
| Purity(HPLC)                                           | 99-100 (%)                      | 99.80000 %                      |
| Ammonia (NH <sub>4</sub> )                             | 0-500 (ppm)                     | 200.00000 ppm                   |
| Appearance (H106210)                                   | white crystal or crystal powder | white crystal or crystal powder |
| Infrared spectrum                                      | Conforms to Structure           | Conforms to Structure           |
| Solubility in H <sub>2</sub> O , Solution transparent  | pass                            | Pass                            |



John Su  
QA & QC Manager