

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-15 13:56:56

Date of Next Testing: 2029-07-14 13:56:56

Product Name: **L-Histidine**

CAS Number: 71-00-1

Specifications & Purity: Animal Free, USP, Moligand™, Ph.Eur., for cell culture

Lot #: G2511560

SKU #: **H108261**

Version: **2**

Analysis #: **535689**

Storage Temperature: Store at 2-8°C, Protected from light

| Parameter                                                          | Limit Values              | Result                    |
|--------------------------------------------------------------------|---------------------------|---------------------------|
| PH test                                                            | 7-8.5                     | 7.10000                   |
| Ammonia (NH <sub>4</sub> )                                         | 0-0.02 (%)                | 0.00100 %                 |
| Assay                                                              | 98.5-100 (%)              | 100.00000 %               |
| Specific Rotation [α] <sub>20</sub> /D(c=11 in 6M HCl/EP)          | 12-12.8 (°)               | 12.62300 °                |
| Loss on drying                                                     | 0-0.2 (%)                 | 0.05000 %                 |
| Chloride                                                           | 0-0.02 (%)                | 0.00000 %                 |
| Specific Rotation [α] <sub>25</sub> /D(c=11 in 6M HCl/USP)         | 12.6-14 (°)               | 12.98700 °                |
| (As)Arsenic                                                        | 0-1 (ppm)                 | 0.50000 ppm               |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )                            | 0-0.02 (%)                | 0.00300 %                 |
| Ignition Residue (as sulfate)                                      | 0-0.1 (%)                 | 0.05000 %                 |
| Heavy metal (as Pb)                                                | 0-10 (ppm)                | 1.10000 ppm               |
| Endonuclease Detection                                             | 0-0.1 (EU/g)              | 0.07000 EU/g              |
| Iron(Fe)                                                           | 0-10 (ppm)                | 0.00000 ppm               |
| Appearance (h108261)                                               | White to Off-White Powder | White to Off-White Powder |
| Ninhydrin-positive substances (other amino acids)                  | Conforms                  | Conforms                  |
| Origin                                                             | non-animal source         | non-animal source         |
| Residual solvents                                                  | complies                  | complies                  |
| Solubility in H <sub>2</sub> O , Colorless solution 0.5G/10MLwater | pass                      | Pass                      |
| Cell Culture Test                                                  | pass                      | Pass                      |
| Infrared spectrum                                                  | Conforms to Structure     | Conforms to Structure     |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager