

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-25 14:19:49

Date of Next Testing: 2027-07-24 14:19:49

Product Name: **L-Histidine**

CAS Number: 71-00-1

Specifications & Purity: $\geq 99\%$

Lot #: G2320794

SKU #: **H108260****Analysis: 255632**

| Parameter | Limit Values | Result |
|-------------------------------------------------------------------------|---------------------------|---------------------------|
| Purity(HPLC) | 98-100 (%) | 99.58000 % |
| Specific Rotation $[\alpha]_{20/D}(c=11 \text{ in } 6\text{mol/L HCl})$ | 12-14 ($^{\circ}$) | 12.54 $^{\circ}$ |
| Nitrogen by Elemental Analysis | 26.8-27.3 (%) | 27.08 % |
| Carbon by Elemental Analysis | 45.9-47.4 (%) | 46.34 % |
| Appearance (H108260) | White to Off-White Powder | White to Off-White Powder |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in 0.5 M HCl , Colorless,Clear at 50 mg/ml | pass | Pass |

John Su
QA & QC Manager