



CERTIFICATE OF ANALYSIS

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|--------------|-----------------------------|
| Product | L-Histidine, hydrochloride, |
| Grade | High Purity |
| Product Code | HB0330 |
| Formula | $C_6H_9N_3O_2 \cdot HCl$ |
| MW | 191.62 |
| CAS# | 645-35-2 |
| Lot No | |

| Test Items | Specifications | Results |
|--------------------------------|--------------------------|---------|
| Appearance | White crystalline powder | |
| pH | 3.5 ~ 4.5 | |
| Specific Rotation (dried) | +8.9°~+9.5° | |
| Loss on Drying | ≤0.2% | |
| Heavy Metals | ≤10ppm | |
| Residue on Ignition | ≤0.1% | |
| Chloride (as Cl) | 16.66%-17.08% | |
| Sulfate (as SO ₄) | ≤0.02% | |
| Arsenic (as As) | ≤1ppm | |
| Ammonium (as NH ₄) | ≤0.02% | |
| Iron | ≤10ppm | |
| State of solution | Clear, colorless | |
| Other Amino-acid | Pass | |
| Assay | 99.0%-101.0% | |

Storage: Store at room temperature. Protect from moisture.