

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	L-Histidine		
<b>C AS no</b>	71-00-1		
<b>Reference standard</b>	USP32		
<b>Formula</b>	C6H9N3O2	<b>Formula Weight</b>	155.15 g/mol
<b>Batch Number</b>	20221125	<b>Manufacture Date</b>	20221125
<b>Report Date</b>	20221125	<b>Expiry Date</b>	20241124

Item of Analysis	Specification	Results
Assay (Dry Basis) Note	98.5 - 101.0 %	99.8 %
Origin	Non-Animal Source	Conforms
Appearance (Color)	White	White
Appearance (Form)	Crystalline Powder	Crystalline Pow der
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
Identity by IR	Conforms to Structure	Conforms
Specific Rotation	12.0 - 12.8 °	12.5 °
Chloride (Cl)	≤ 0.020%	< = 0.020%
Ammonium	≤ 0.02 %	0.00 %
Sulfate	≤ 0.020%	< = 0.020%
Iron (Fe)	≤ 10 ppm	< = 10 ppm
Arsenic (As)	≤ 1 ppm	< = 1 ppm
Loss on Drying	≤ 0.20 %	0.02 %
Residue on ignition (Ash)	≤ 0.10 %	0.00 %
Ninhydrin-Positive Substances	Conforms	Conforms

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

