

**CERTIFICATE OF ANALYSIS**

Product Name: L-Histidine Monohydrochloride  
 CAS NO.: 5934-29-2  
 Batch No.: 18/MFM/2081  
 Molecular Weight: 209.63  
 Expiry Date: March 2021  
 Storage Temp: + 20°C

TESTS	SPECS	RESULTS
Assay (titration)	> 98.5% - 101.0% (dried basis)	99.6%
Appearance	White or almost white crystalline powder, or colourless crystals.	Conforms
Solubility (5% in water)	Clear colourless to faint yellow solution	Conforms
pH (5% in water)	3.0 – 5.0	3.7
Specific optical rotation	+9.2° to +10.6°	+9.4°
Loss on Drying	7.0 – 10.0%	9.0%
Ammonium	<= 200ppm	Conforms
Iron (Fe)	<= 10ppm	Conforms
Lead (Pb)	<= 3ppm	Conforms
Sulphates	<= 300ppm	Conforms
Heavy metals	<= 10ppm	Conforms
Cadmium (Cd)	<= 1ppm	Conforms
Mercury (Hg)	<= 0.1ppm	Conforms
Sulphated Ash	<= 0.1%	Conforms
Pharmacopoeia specification(s)	EP	Conforms to EPS

\* This material is supplied for laboratory use only

Supplier: Formedium Ltd

For and on behalf of  
 Formedium Ltd, Unit 1E  
 Hunstanton Commercial Park  
 PE36 5JQ, England  
 (Authorised Signature)

Date: 23 MAR 2018