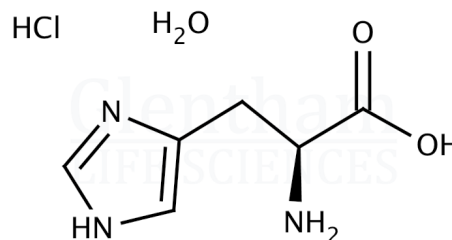


Certificate of Analysis

Product Name	L-Histidine monohydrochloride monohydrate, EP grade
Glentham Code	GM1189
CAS Number	5934-29-2
EINECS	211-438-9
MDL Number	MFCD00151027
Additional CAS	645-35-2 (anhydrous)
Additional CAS	1007-42-7
PubChem SID	310274642
Batch Number	840ETN
Molecular Weight	209.63
Molecular Formula	$C_6H_9N_3O_2 \cdot HCl \cdot H_2O$
Storage Temp.	+20°C



Property	Specification	Batch 840ETN
Physical Description	White or almost white crystalline powder, or colourless crystals	White crystalline powder
Identification	According to EP	Conforms
Solubility (5% in water)	Clear, colourless to faint yellow solution	Clear, colourless solution
pH (5% in water)	3.0 - 5.0	3.8
Specific Optical Rotation	+9.2 - +10.6 °	+9.9°
Sulphates	≤ 300ppm	< 200ppm
Ammonium	≤ 200ppm	< 200ppm
Heavy Metals	≤ 10ppm	< 5ppm
Iron (Fe)	≤ 10ppm	< 10ppm
Lead (Pb)	≤ 3ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Sulphated Ash	≤ 0.1%	0.0%
Loss on Drying	7.0 - 10.0 %	8.7%
Assay (Titration)	98.5 - 101.0 % (dried basis)	99.6%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version	v1.1
Manufacture Date	2022-06-14
Re-Test Date	2031-07-25

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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