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Certificate of Analysis

Product Name L-Histidine monohydrochloride

monohydrate, GlenCell™, suitable for cell

culture

 Glentham Code
 GM2021

 CAS Number
 5934-29-2

 EINECS
 211-438-9

 MDL Number
 MFCD00151027

 Additional CAS
 645-35-2 (anhydrous)

Additional CAS 1007-42-7 Batch Number 274NFT

Molecular Weight 209.63

Molecular Formula $C_6H_9N_3O_2 \cdot HCI \cdot H_2O$

Storage Temp. +20°C

HCI H₂O O O O OH

Property	Specification	Batch 274NFT
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility	Freely soluble in water and in formic acid, practically insoluble in ethanol	Conforms
Solubility (10% in water)	Clear, colourless solution	Conforms
Transmittance	≥ 98.0% (10% in water, 430nm, 10mm cell)	100.0%
Specific Optical Rotation	+9.2 - +10.6 ° (C=11, 6M HCl)	+9.8°
Chloride (CI)	16.6 - 17.1 %	16.9%
Ammonium (NH4)	≤ 0.02%	Conforms
Sulphate (SO4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Arsenic (As2O3)	≤ 1ppm	Conforms
Related Substances	To pass test	Conforms
Water (KF)	7.2 - 10.0 %	8.6%
Sulphated Ash	≤ 0.1%	0.03%
рН	3.5 - 4.5 (10% in water)	3.8
Endotoxins	≤ 6.0EU/g	Conforms
Assay	99.0 - 101.0 %	99.4%
Origin	Non-animal origin	Conforms

Specification Version v1.0

Manufacture Date 2021-08-29

Re-Test Date 2028-07-28

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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