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## Certificate of Analysis

<b>Product</b>	<b>86877 - L-Histidine Hydrochloride for cell culture, 99% - [5934-29-2]</b>
<b>Batch No</b>	<b>7432525</b>
<b>Analysis Date</b>	11-Jul-2021
<b>Date of Manufacture</b>	July 2021
<b>Expiry Date/Re-Test Date</b>	July 2026
<b>Molecular Formula</b>	C <sub>6</sub> H <sub>10</sub> N <sub>3</sub> O <sub>2</sub> Cl.H <sub>2</sub> O
<b>Molecular Weight</b>	209.63

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Colourless	Colourless
Assay	min. 99 %	99.3%
Specific rotation [ $\alpha$ ]	+8.5 to + 9.5° (C=2, 5N HCl)	+8.57°
Loss on drying	max. 0.5 %	0.1%
Sulphated Ash	max. 0.1 %	0.08%
Sulphate (SO <sub>4</sub> )	max. 0.01 %	Passes
Iron (Fe)	max. 0.001 %	Passes
Heavy Metals (Pb)	max. 0.001 %	Passes
Ammonium (NH <sub>4</sub> )	max. 0.01 %	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Cell Culture	Passes test	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	<1 EU/mg	Passes

FRM/82/11/4/86877 Rev No. 1 Date 01/09/2021

Prepared by **Prajakta**

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

608-B, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Chakala, Andheri (E), Mumbai - 400 099. India. ☎ +91-22-4268 5800

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