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Certificate of Analysis

Product	45976 - L-Lysine Monohydrate (base) for molecular biology - [39665-12-8]
Batch No	4041142
Analysis Date	23-Oct-2016
Date of Manufacture	October 2016
Expiry Date/Re-Test Date	October 2021
Molecular Formula	C ₆ H ₁₄ N ₂ O ₂ .H ₂ O
Molecular Weight	164.21

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to pale yellow	Pale yellow
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Solubility (Colour) 10% solution 2N HCl	Colourless to pale yellow	Pale yellow
Assay	min. 99%	99.7%
Melting Point	213 - 214°C	213°C
Specific rotation [α]	+25 to +26° (C = 5, 5N HCl)	+25°
Ammonium (NH ₄)	max. 0.01%	Passes
Water (KF)	max. 10 - 12%	10.5%
DNase, RNase, Protease	Not detected	Not detected

FRM/82/11/4/45976 Rev No. 1 Date 01/11/2015

Prepared by Dhairyashil

In compliance with the standard specifications of SRL

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

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