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Certificate of Analysis

Product	21113 - Urea for molecular biology, 99.5% - [57-13-6]
Batch No	2547360
Analysis Date	15-Jan-2024
Date of Manufacture	January 2024
Expiry Date/Re-Test Date	January 2029
Molecular Formula	NH ₂ CONH ₂
Molecular Weight	60.06

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline compound	Crystalline compound
Solubility (Turbidity) 8M aq. solution	Clear	Clear
Solubility (Colour) 8M aq. solution	Colourless	Colourless
Assay (ex N)	min. 99.5%	99.9%
Melting Point	132-133°C	133°C
Sulphated Ash	max. 0.01%	0.001%
Chloride (Cl)	max.0.0005. %	Passes
Sulphate (SO ₄)	max.0.001%	Passes
Iron (Fe)	max. 0.0001%	Passes
Heavy Metals (Pb)	max. 0.0001%	Passes
Acidity	max. 0.05ml N%	0.01ml N%
Absorbance (A) of 6M aq. solution in a 1cm cell v/s H ₂ O		
@260nm	max. 0.06	0.0135
@280nm	max. 0.06	0.0130
Biuret (C ₂ H ₅ N ₃ O ₂)	max. 0.05%	Passes
DNase, RNase, Protease	Not detected	Not detected

FRM/82/11/4/21113 Rev No. 2 Date 25/01/2022

Prepared by **ThakurRohit**

In compliance with the standard specifications of SRL

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

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