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Certificate of Analysis

Product	78168 - Urea for cell culture, 99.5% - [57-13-6]
Batch No	3501971
Analysis Date	02-May-2021
Date of Manufacture	May 2021
Expiry Date/Re-Test Date	May 2026
Molecular Formula	CH4N2O
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%	0.008%
Chloride (Cl)	max.0.0005. %	Passes
Sulphate (SO4)	max.0.001%	Passes
Iron (Fe)	max. 0.0001%	Passes
Heavy Metals (Pb)	max. 0.0001%	Passes
Acidity	max. 0.05ml N%	0.04ml N%
Absorbance (A) of 8M aq. solution in a 1cm cell v/s H2O	.	.
@260nm	max. 0.056	0.048
@280nm	max. 0.046	0.032
Biuret (C2H5N3O2)	max. 0.05%	Passes
DNase, RNase, Protease	Not detected	Not detected
Suitability for Cell Culture	Passes	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	< 0.05 EU/mg	Passes

FRM/82/11/4/78168 Rev No. 2 Date 28/12/2021

Prepared by Yogesh

In compliance with the standard specifications of SRL

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

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