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Certificate of Analysis

Product **86854 - Urea extrapure AR, ACS, ExiPlus,
Multi-Compendial, 99.5% - [57-13-6]**

Batch No **1230078**
Analysis Date 20-Jun-2024
Date of Manufacture June 2024
Expiry Date/Re-Test Date June 2029
Molecular Formula CH₄N₂O
Molecular Weight 60.06

| Test Parameters | Standards | Actual Results |
|---|-----------------------------------|--------------------|
| ExiPlus | meets compendial specs of USP, BP | Passes |
| Appearance (Colour) | White | White |
| Appearance (Form) | Crystalline powder | Crystalline powder |
| Solubility (Turbidity) 8M aq. solution | Clear | Clear |
| Solubility (Colour) 8M aq. solution | Colourless | Colourless |
| Identification (IR Spectrum) | Passes test | Passes |
| Assay (ex N) | min. 99.5% | 99.8% |
| Melting Point | 132 - 135°C | 135°C |
| Sulphated Ash | max. 0.01% | 0.002% |
| Insoluble matter | max. 0.01% | 0.002% |
| Chloride (Cl) | max. 0.0005% | Passes |
| Sulphate (SO ₄) | max. 0.001% | Passes |
| Iron (Fe) | max. 0.0001% | Passes |
| Heavy Metals (Pb) | max. 0.0002% | Passes |
| Acidity | max. 0.05ml N% | 0.02ml N% |
| Biuret (C ₂ H ₅ N ₃ O ₂) | max. 0.05% | Passes |

FRM/82/11/4/86854 Rev No. 4 Date 17/04/2024

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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