

Certificate of Analysis

Date of Testing:	2023-05-25 15:52:25
Date of Next Testing:	2025-05-14 15:52:25
Product Name:	Urea
CAS Number:	57-13-6
Specifications & Purity:	for molecular biology, ≥99.5% (T)
Lot #:	E2322190
SKU #	U111902
Version	1
Analysis #:	214845

Parameter	Limit Values	Result
Iron(Fe)	0-5 (ppm)	0.00 ppm
Copper(ICP)	0-1 (ppm)	0.00 ppm
Chloride Content	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-2 (ppm)	0.00 ppm
UV Absorbance 260nm(6 M solution)	≤ 0.06	0.00000
UV Absorbance 280nm(6 M Solution)	≤0.06	0.00000
Purity (T)	99-100.5 (%)	99.10 %
Cyanate(OCN)	0-10 (ppm)	1.10000 ppm
Appearance (U111902)	White Powder or Crystals	White Powder or Crystals
Solubility (Turbidity) (100 mg/mL, H ₂ O) ,Clear Colorless	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
proteases	none detected	none detected
RNases	none detected	none detected
NICKase,Endonuclease Detection	none Detected	none detected
DNase, Exonuclease Detection	None Detected	none detected



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager