

## Certificate of Analysis

Date of Testing:	2024-12-16 13:56:45
Date of Next Testing:	2026-12-06 13:56:45
Product Name:	<b>Urea</b>
CAS Number:	57-13-6
Specifications & Purity:	for molecular biology, ≥99.5%(T)
Lot #:	L2406725
SKU #	<b>U111902</b>
Version	<b>1</b>
Analysis #:	<b>433972</b>

Parameter	Limit Values	Result
Iron(Fe)	0-5 (ppm)	0.00 ppm
Purity (T)	99-100.5 (%)	99.36 %
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	0.01000
UV Absorbance 280nm(6 M Solution)	≤0.06	0.00600
Cyanate(OCN)	0-10 (ppm)	8.00000 ppm
Appearance (U111902)	White Powder or Crystals	White Powder or Crystals
Solubility (Turbidity) (100 mg/mL, H <sub>2</sub> 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". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager