

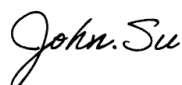
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-23 19:44:22  
Date of Next Testing: 2025-02-12 19:44:22  
Product Name: **Urea**  
CAS Number: 57-13-6  
Specifications & Purity: for molecular biology, ≥99.5% (T)  
Lot #: B2318320  
SKU #: **U111902**  
Analysis: **179396**

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	0.03000
UV Absorbance 280nm(6 M Solution)	≤0.06	0.02000
Purity (T)	99.5-100 (%)	99.41%
Cyanate(OCN)	0-10 (ppm)	5.00000 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



John Su  
QA & QC Manager