

## Certificate of Analysis

Date of Testing: 2022-12-01 15:13:17  
Date of Next Testing: 2024-11-20 15:13:17  
Product Name: **Urea**  
CAS Number: 57-13-6  
Specifications & Purity: for molecular biology,  $\geq 99.5\%$  (T)  
Lot #: K2218895  
SKU #: **U111902**  
Analysis: **149574**

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
Purity (T)	99-100.5 (%)	99.10 %
Cyanate(OCN)	0-10 (ppm)	9.00000 ppm
UV Absorbance 260nm(6 M solution)	$\leq 0.06$	0.00000
UV Absorbance 280nm(6 M Solution)	$\leq 0.06$	0.00000
Appearance (U111902)	White Powder or Crystals	White Powder or Crystals
proteases	none detected	none detected
RNases	none detected	none detected
Solubility (Turbidity) (100 mg/mL, H <sub>2</sub> O) ,Clear Colorless	Pass	Pass
NICKase,Endonuclease Detection	none Detected	none detected
DNase, Exonuclease Detection	None Detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager