

## Certificate of Analysis

Date of Testing: 2022-07-12 16:24:18  
Date of Next Testing: 2024-07-01 16:24:18  
Product Name: **Urea**  
CAS Number: 57-13-6  
Specifications & Purity: for molecular biology,  $\geq 99.5\%$  (T)  
Lot #: I2008273  
SKU #: **U111902**  
**Analysis: 112006**

Parameter	Limit Values	Result
Iron(Fe)	0-1 (ppm)	0.01 ppm
lead by ICP-atomic emission	0-5 (ppm)	2.30 ppm
Purity (T)	99.5-100 (%)	99.62%
Cyanate content	0-10 (ppm)	4.70 ppm
Copper(ICP)	0-1 (ppm)	0.32 ppm
Chloride Content	0-5 (ppm)	4.36 ppm
Appearance (U111902)	White powder	White powder
DNases	none detected	none detected
Endonuclease Detection	None Detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
proteases	none detected	none detected
RNases	none detected	none detected
Solubility, 1g/10ml water	Clear colorless	Clear Colorless
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager