

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Urea,for molecular biology, 99.5% (T)

ITEM NUMBER: U111902  
BRAND: Aladdin  
CAS NUMBER: 57-13-6  
MDL NUMBER: MFCD00198123  
FORMULA: CH<sub>4</sub>N<sub>2</sub>O  
MOLECULAR WEIGHT: 60.04

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	White powder		
chloride content	0 ppm	5 ppm	5 ppm
copper by ICP-atomic emission	0 ppm	1 ppm	1 ppm
cyanate content	0 ppm	10 ppm	10 ppm
DNases, Endonuclease Detection	none detected None Detected		
Infrared spectrum	Conforms to Structure		
Iron(Fe)	0 ppm	1 ppm	1 ppm
lead by ICP-atomic emission	0 ppm	5 ppm	5 ppm
proteases	none detected		
Purity(T)	99.5 %	100 %	100 %
RNases	none detected		
solubility	clear colorless solution at 1g plus 10ml of water		
X-Ray Diffraction	Conforms to Structure		