

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2021-12-17 10:31:36  
Date of Next Testing: 2025-12-16 10:31:36  
Product Name: **Urea**  
CAS Number: 57-13-6  
Specifications & Purity: Ph. Eur.,BP,USP,99.0-100.5%  
Lot #: L2115743  
SKU #: **U111903**  
**Analysis: 059305**

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.1 (%)	0.00 %
Iron(Fe)	0-0.5 (ppm)	0.20 ppm
Chloride (Cl-)	0-10 (ppm)	3.97 ppm
Loss on drying	0-1 (%)	0.43 %
Insoluble in Ethanol	0-0.04 (%)	0.02 %
Sulfate(SO42-)	0-50 (ppm)	29.00 ppm
Melting point	132-135 (°C)	132.80000 °C
Heavy metal (as Pb)	0-0.001 (%)	0.00 %
biuret(carbamylurea)	0-0.1 (%)	0.05 %
Ammonia (NH4)	0-0.05 (%)	0.02 %
Assay	99-100.5 (%)	100.00 %
alkalic reac. substances,	complies	complies
Infrared spectrum	Conforms to Structure	Conforms to Structure
Residual solvents	complies	complies



John Su  
QA & QC Manager