

## Certificate of Analysis

Date of Testing: 2023-04-21 11:37:56  
Date of Next Testing: 2027-04-20 11:37:56  
Product Name: **Urea**  
CAS Number: 57-13-6  
Specifications & Purity: Ph. Eur.,BP,USP,99.0-100.5%  
Lot #: D23142000  
SKU #: **U111903**  
**Analysis: 214667**

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.1 (%)	0.00 %
Iron(Fe)	0-0.5 (ppm)	0.32 ppm
Chloride (Cl-)	0-10 (ppm)	5.80 ppm
Loss on drying	0-1 (%)	0.23 %
Insoluble in Ethanol	0-0.04 (%)	0.03 %
Sulfate(SO42-)	0-50 (ppm)	25.63 ppm
Melting point	132-135 (°C)	133.00000 °C
Heavy metal (as Pb)	0-0.001 (%)	0.00 %
biuret(carbamylurea)	0-0.1 (%)	0.00 %
Ammonia (NH4)	0-0.05 (%)	0.00 %
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