



Certificate of Analysis

Urea ACS/USP/EP/BP/JP

Catalog Number: UU1001
Lot Number: 1006603
CAS Number: 57-13-6
Molecular Formula: CH₄N₂O
Molecular Weight: 60.06
Storage: 15°C – 30°C
Date of Manufacture: May 23, 2016
Retest Date: May 22, 2021

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay	99.0% - 100.5%	99.54%
Identification	To pass test	Conforms
Insoluble Matter	≤ 0.01%	0.005%
Melting Point	132.5°C – 134.5°C	133.3°C
Residue on Ignition/Ash (Sulfated)	≤ 0.01%	0.0078%
Chloride (Cl)	≤ 5ppm	< 5ppm
Sulphate (SO ₄)	≤ 0.001%	< 0.001%
Heavy Metals (as Pb)	≤ 0.001%	< 0.001%
Iron (Fe)	≤ 0.001%	< 0.001%
Alcohol Insoluble Matter	≤ 0.04%	0.0052%
Appearance (20% solution)	To pass test	Conforms
Solubility (300mg/ml, H ₂ O)	Soluble in alcohol; Insoluble in methylene chloride	Conforms
Alkalinity	To pass test	Conforms
Biuret	≤ 0.1%	< 0.1%
Ammonium (NH ₄)	≤ 0.05%	< 0.05%
Loss on Drying (105°C/1h)	≤ 1.0%	0.27%

Residual Solvents: Solvent other than purified water was not used during production process of the product.

Approved by:

John Grubb, PhD
Gojira Fine Chemicals, LLC

Date: October 6, 2016



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146
www.gojirafc.com • sales@gojirafc.com

Quality Manager
Tel: 440-539-7033 Fax: 888-211-5523
john@gojirafc.com