

**FINISHED PRODUCT: CERTIFICATE OF ANALYSIS**

**DEPARTMENT : QUALITY CONTROL**

Ref .SOP No | QC/017, Rev – 00

Format No. : QC/017/F/02-00

Name of product : UREA JP

Chemical Formula : CH<sub>4</sub>N<sub>2</sub>O | Molecular Weight: 60.1 gm/mol. | CAS No : 57-13-6

HSN Code | 31021000 | Batch Number | 050001D22

Date of sampling | 15/04/2022 | Date of Manufacture | April.-2022

Sample Quantity | 100.00 Gms. | Date of Expiry | 5 Years after Mfg. date

Date of Analysis | 15/04/2022




Date of Release | 18/04/2022

Mfg. Lic. No. | G/25/2513

Sr. No.	Test	Observation	Specification
1.	Appearance	White crystalline powder	Urea occurs as colorless to white, crystals or crystalline powder. It is odorless, and has a cooling, saline taste.
2.	Solubility	It is very soluble in water, freely soluble in boiling ethanol (95%)	It is very soluble in water, freely soluble in boiling ethanol (95%), and very slightly soluble in diethyl ether.
3.	<b>Identification (1)</b> A reddish purple color develops <b>Identification (2)</b> A white, crystalline precipitate is formed.	<b>Pass Test</b>  <b>Pass Test</b>	To Pass test  To Pass test
4.	Melting point	133.2 °C to 133.4 °C	132.5 °C to 134.5 °C
5.	Chloride	Pass Test	NMT 0.007 %
6.	Sulfate	Pass Test	NMT 0.010 %
7.	Heavy metals	Pass Test	NMT 20 ppm
8.	Ethanol-insoluble substances	Pass Test	The mass of the residue is not more than 2.0 mg
9.	Residue on ignition	Pass Test	Max. 0.1 %
10.	Assay % (Dried basis)	99.14%	Not Less than 99.0 %

**Storage Condition** : Store protected from light and moisture.

**Remarks:** The above product complies with above specification.

	Prepared By/Analyzed by	Approved by
Signature		 
Date	15/04/2022	18/04/2022