

**FINISHED PRODUCT: CERTIFICATE OF ANALYSIS**

**DEPARTMENT : QUALITY CONTROL**




<b>Ref .SOP No</b>	QC/017, Rev – 00	<b>Format No. :</b> QC/017/F/02-00
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<b>Name of product</b> : FERROUS GLUCONATE IP			
<b>Chemical Formula</b> : $C_{12}H_{22}FeO_{14}.2H_2O$ .		<b>Molecular Weight</b> : 482.17gm/mol.	
<b>CAS No</b> : 299-29-6			
<b>HSN Code</b>	29181620	<b>Batch Number</b>	056001D22
<b>Date of sampling</b>	29/04/2022	<b>Date of Manufacture</b>	April.-2022
<b>Sample Quantity</b>	100.00 Gms.	<b>Date of Expiry</b>	5 Years after Mfg. date
<b>Date of Analysis</b>	29/04/2022		
<b>Date of Release</b>	05/05/2022		
<b>Mfg. Lic. No.</b>	G/25/2513		

Sr. No.	Test	Observation	Specification
1.	Description	<b>Greenish-yellow fine powder</b>	Greenish-yellow fine powder, Odour resembling to that of burnt sugar.
2.	<b>Identification A</b> 1 mL of resulting solution gives reaction of A ferrous salts. <b>Identification B</b> Thin-layer chromatography	<b>Pass Test</b>  <b>Pass Test</b>	To pass test  To pass test
3.	Appearance of Solution	<b>Pass Test</b>	As per IP
4.	Solubility	<b>Freely soluble in water, more Readily soluble on warming, almost insoluble in alcohol.</b>	Freely soluble in water, more Readily soluble on warming, almost insoluble in alcohol.
5.	pH	<b>4.45</b>	4.0 to 5.5
6.	Loss on drying	<b>6.14 %</b>	5.0 % to 10.0%
7.	Chlorides (Cl)	<b>120 ppm</b>	Max. 625 ppm
8.	Sulfates (SO <sub>4</sub> )	<b>Pass Test</b>	NMT 500 ppm
9.	Arsenic (AS)	<b>Pass Test</b>	NMT 2 ppm
10.	Reducing sugars	<b>Pass Test</b>	To pass test
11.	Barium	<b>Pass Test</b>	No turbidity is produce
12.	Oxalic Acid	<b>Pass Test</b>	No turbidity is produced.
13.	Heavy metals	<b>Pass Test</b>	NMT 20 ppm
14.	Microbial contamination	<b>Pass Test</b>	Not more than 10 <sup>3</sup> CFU/g
15.	Ferric ions	<b>Pass Test</b>	NMT 1%
16.	Assay % (Dried Basis)	<b>95.44 %</b>	95 % to 102% on dry basis

**Storage Condition** : Protected from light.

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

	Prepared By/Analyzed by	Approved by
<b>Signature</b>		 
<b>Date</b>	29/04/2022	05/05/2022