



## FERROUS GLUCONATE

Sr. No.	TESTS		SPECIFICATION		
			IP	USP	BP
1.	Description		A yellowish grey or pale greenish - yellow, fine powder or granules, odor, slight, resembling that of burnt sugar	Yellowish - gray or pale greenish yellow, fine powder or granules, having a slight odor resembling that burned sugar	Greenish yellow or grey powder or granules
2.	Solubility		Freely but slowly soluble in water; more readily soluble on warming; practically insoluble in ethanol (95%)	Soluble in water, with slight heating; practically insoluble in alcohol	Freely but slowly soluble in water giving a greenish brown solution, more readily soluble in hot water, practically insoluble in ethanol (96%)
3.	Identification				
	A. Identification Tests- General (2.3.1 [a] )		Complies as IP	Complies as USP	Complies as BP
	B. Thin layer Chromatography		Complies as IP	Complies as USP	Complies as BP
4.	pH		4.0 to 5.5		4.0 to 5.5
5.	Loss on Drying		5.0% to 10%	6.5% to 10%	5.0 % - 10.5 %
6.	Appearance of solution		As per IP		As per BP
7.	Arsenic		NMT 2 ppm	NMT 3 ppm	<b>MAX 2 ppm</b>
8.	Heavy Metals		NMT 20 ppm		MAX 20 ppm
9.	Chloride		NMT 625 ppm	<b>NMT 0.07%</b>	MAX 0.06%
10.	Sulphates		NMT 500 ppm	<b>NMT 0.1%</b>	MAX 500 ppm
11.	Barium		As per IP		As per BP
12.	Mercury			<b>NMT 3 ppm</b>	
13.	Lead			<b>NMT 10 ppm</b>	
14.	Ferric iron		NMT 1.0%	<b>NMT 2.0%</b>	MAX 1.0%
15.	Oxalic Acid		As per IP	As per USP	<b>As per BP</b>
	Reducing Substance		As per IP	As per USP	
16.	Microbial Contamination	TAMC	Total viable aerobic count		10 <sup>3</sup> CFU/g
17.		TYMC			10 <sup>2</sup> CFU/g
18.	Assay		95.0%-102.0%	97.0 %-102.0%	<b>11.8 to 12.5% of iron (II) (dried substance). It contain variable amount of water</b>
19.	Sucrose & reducing sugar				<b>As per BP</b>