

FINISHED PRODUCT: CERTIFICATE OF ANALYSIS

DEPARTMENT : QUALITY CONTROL

Ref .SOP No	QC/017, Rev – 00	Format No. : QC/017/F/02-00
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Name of product : CALCIUM GLUCONATE IP			
Chemical Formula : C ₁₂ H ₁₀ Ca ₃ O ₁₄ .H ₂ O		Molecular Weight : 418.40 gm/mol.	CAS No : 299-28-5
HSN Code	29181610	Batch Number	060001L22
Date of sampling	22/12/2022	Date of Manufacture	Dec.-2022
Sample Quantity	100.00 Gms.	Date of Expiry	5 Years after Mfg. date
Date of Analysis	22/12/2022		
Date of Release	31/12/2022		
Mfg. Lic. No.	G/25/2513		

Sr. No.	Test	Observation	Specification
1.	Description	White, crystalline powder.	A white, crystalline powder or granules.
2.	Solubility	Sparingly soluble in water, freely soluble in boiling water.	Sparingly soluble in water, freely soluble in boiling water.
3.	Identification A Determine by thin-layer chromatography, coating the plate with silica gel G. Identification B A yellow colour is produced. Identification C gives reactions A and B of calcium salts	Pass Test Pass Test Pass Test	To pass test To pass test To pass test
4.	Appearance of solution	Pass Test	A 2.0 % solution at 60 ⁰ C is not more intensely coloured than reference solution YS6. On cooling to room temperature the solution is not more opalescent than opalescence standard OS2.
5.	Acidity and alkalinity	Pass Test	Add 0.1 ml of 0.01 N of hydrochloric acid and 0.1 ml of phenolphthalein solution; no colour is produced. Add 0.3 ml of 0.01 N of sodium hydroxide; a pink: colour is Produced.
6.	Arsenic	Pass Test	Max. 2 ppm
7.	Heavy metals	Pass Test	Max. 20 ppm




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Sr. No.	Test	Observation	Specification
8.	Chlorides	Pass Test	Max. 250 ppm
9.	Sulphates	Pass Test	Max. 150 ppm
10.	Sucrose and reducing sugars	Pass Test	No red precipitate is formed
11.	Assay	98.63%	98.5 % to 102.0 %
Storage Condition : In an airtight container.			

Remarks: The above product complies with above specification.

	Prepared By/Analyzed by	Approved by
Signature		 
Date	22/12/2022	31/12/2022