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Plot no. 1116/P, Lamadapura Road,  
Manjusar – 391 775,  
Ta- Savli, Dist. Vadodara, Gujarat, India

**Quality Control**

**Standard Test Specifications**

**Title: Calcium Chloride Dihydrate Food Grade**

**Page No.:** 1 of 3

**Specification No.:**  
ACPL/FP/SP/057

**Revision No.:**  
00

**Effective Date**  
10/07/2021

**Review Date**  
09/07/2024


**Change Control No.**

NA

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**1.0 SAMPLING LEVEL:**

As mentioned in the “Sampling procedure” SOP.

**2.0 SAMPLING METHOD TO BE FOLLOWED:**

100% sampling to be done from each container.

**3.0 TOTAL COMPOSITE SAMPLE TO BE COLLECTED :**

100 gm

**4.0 RETEST DATE:** Three year

**5.0 CAS No:** 10035-04-8

**6.0 MOLECULAR FORMULA:** CaCl<sub>2</sub>.2H<sub>2</sub>O.

**7.0 MOLECULAR WEIGHT:** 147.0 gm/mol.

**1.0 CATEGORY:** Calcium replenisher.

**2.0 STORAGE:** In an airtight container.

**3.0 SAFETY PRECAUTIONS TO BE TAKEN WHILE SAMPLING AND HANDLING :**

Use hand gloves, goggles and apron during Handling.

**4.0 CONTROL SAMPLE:** 3 X 100gm.

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**TEST PARAMETERS AND SPECIFICATIONS****REF: FOOD GRADE**

Sr. No.	TEST PARAMETER	SPECIFICATION
1.	Appearance	White or almost white, crystalline powder, hygroscopic.
2.	Solubility	Freely soluble in water, soluble in ethanol (96 %).
3.	<b>Identification A</b> Solution S gives reaction (a) of chlorides <b>Identification B</b> It gives the reactions of calcium <b>Identification C</b> It complies with the limits of the assay	To pass test  To pass test  To pass test
4.	Appearance of Solution	Solution S is clear and not more intensely colored than reference solution Y6.
5.	Acidity or Alkalinity	NMT 0.2 mL of 0.01 M sodium hydroxide is required to turn it red
6.	Sulfates	Max. 300 ppm
7.	Aluminium	Max. 1.0 ppm
8.	Barium (Ba)	To Pass test
9.	Iron (Fe)	Max. 10 ppm
10.	Magnesium and alkaline metals	Max. 0.5 %
11.	Assay(Dried basis)	97.0 % to 103.0 %

**REVISION HISTORY:**

Revision No.	Effective Date	Revision Description	Change Control No.
00	10/07/2021	First Issuance	N A

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