

Exp. No.-17**Date:****Aim:** To prepare and submit 10 ml Calcium gluconate injection I.P**Reference:**

- ✓ Gupta A.K., Jain V.K., Pharmaceutics-I Practical Note Book, CBS Publishers & Distributors Pvt.Ltd.2020; 85
- ✓ Dr. Kastur P.V., Gokhale S.B., Parakh S.R., Hasan S.A. Practical Pharmaceutics- 1, Nirali Prakashan, August 2019, 26th Edition.Mumbai;10.9
- ✓ Indian Pharmacopoeia.

Requirements:**Apparatus Required:**

Mortar & pestle, weigh balance, measuring cylinder, glass rod, spatula, beaker, funnel etc.

Chemical Required:

Calcium Gluconate, Calcium D Saccharate, Water for Injection

Principle: Calcium Gluconate injection is a sterile solution of calcium gluconate in water for injection.

Not more than 5% of calcium gluconate may be replaced with a suitable calcium salt as a stabilizing agent.

Formula:

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1	Calcium Gluconate	9.65gm		
2	Calcium D saccharate	0.35gm		
3	Sterile water for injection I. P	100ml		10ml

Calculation:**Procedure:**

Weigh the desired amount of calcium gluconate and calcium D saccharate. At first mix the calcium gluconate and water for injection in presence of heat. Then calcium D saccharate is dissolved in above solution. Then cool it and filter it.

Dose: 1 to 2 gm**Uses:** Treat conditions arising from calcium deficiencies such as hypocalcemic tetany, hypocalcaemia related to hyperparathyroidism, and hypocalcaemia due to rapid growth or pregnancy.**Storage:** It should be store in glass ampoules.

Label:

CALCIUM GLUCONATE INJECTION I.P		
10ml		
Composition: Calcium Gluconate Calcium D saccharate Sterile water for injection I. P	BATCH NO.:	MFG. DATE:
Category: Calcium replenisher	MFG. LIC NO.:	EXPIRY DATE:
FOR INTERNAL USE ONLY		
Use: Treat conditions arising from calcium deficiencies		
Storage: Stored in a well closed container at a temperature not exceeding 25 ⁰ C		
MFG BY: ABCD	Batch:	Roll No.:

Report: