

Exp. No.-16**Date:****Aim:** To prepare and submit 10 ml sodium chloride 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

Requirements:**Apparatus Required:**

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

Chemical Required:

Sodium chloride and sterile water for injection I.P

Principle:

Sodium Chloride Injection 0.9% is used to replace lost body fluids and salts. Other medicines which are given by injection or by a drip may be diluted with Sodium Chloride Injection 0.9%. Sodium Chloride Injection 0.9% can also be used as a sterile irrigation solution.

Formula:

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1	Sodium chloride	0.9% w/v		
2	Sterile water for injection I. P	q. s		10ml

Calculation:**Procedure:**

Accurately weighed quantity of pure sodium chloride is dissolve in freshly distilled pyrogen free sterile water. The solution is then filtered and filled in ampoules taking precautions to minimize bacterial contamination. Alternatively, the solution may be filled in clean dry infusion bottles and rubber bung is used to close the infusion bottle. Bottles are then placed in an autoclave at 121⁰ and 15 psi pressure for 30 minutes.

Dose: No specific dose since it is used as a solvent.**Uses:** It is used as an absorbent and transport nutrients. It maintains blood pressure and the right balance of fluid.**Storage:** It should be stored in glass ampoules.

Label:

SODIUM CHLORIDE INJECTION I.P		
10ml		
Composition: Sodium chloride Sterile water for injection I. P	BATCH NO.:	MFG. DATE:
Category: Isotonic vehicle	MFG. LIC NO.:	EXPIRY DATE:
FOR INTERNAL USE ONLY.		
Use: It is used as a absorb and transport nutrients		
Storage: Stored in a well closed container at a temperature not exceeding 25 ⁰ C		
MFG BY: ABCD	Batch:	Roll No.:

Report: