

Experiment-7

Pharmaceutics

D.Pharma 1st Year Notes

Experiment-7

- **To prepare and submit 30ml of Calamine lotion.**

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Experiment-7

Aim: To prepare and submit 30ml of Calamine lotion.

Reference:

- Mehta R.M., Dispensing Pharmacy, Vallabh Prakashan, New Delhi, 2017; 165 -166.

Requirements:

Apparatus Required:

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

Chemical Required:

- Calamine, Zinc oxide, Bentonite, Glycerin, sodium citrate, Liquefied phenol, rose water, Purified water.

Principle:

- It is a suspension containing in-diffusible Solids for external use. Here we use bentonite as a suspending agent, dispersion of bentonite is observed if it is mixed intimately with insoluble medicament i.e. calamine.
- Zinc oxide used here acts as astringent & protective agent. Sodium citrate causes partial deflocculation of calamine and transfers bentonite from gel to solid form in its absence. Hence it is thicker & difficult to pour from bottle.

Formula:

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1.	Calamine	150 gm		
2.	Zinc oxide	50 gm		
3.	Bentonite	15gm		
4.	Glycerine	5 ml		
5.	Sodium citrate	5ml		
6.	Liquefied phenol	50 ml		
7.	Rose water	1000 ml		30 ml

Calculation:

Procedure:

- Mix the weighed amounts of Calamine, ZnO, Bentonite in a mortar & pestle.
- Triturate with a solution of sodium citrate in 5 ml of water.
- Add required amounts of liquefied phenol & Glycerine.

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- Mix well, to this add more of vehicle to produce required volume, mix thoroughly so as to get uniform preparation. Filter and transfer in a suitable container.

Directions:

- Shake well before use. To be applied 2-3 times a day.

Uses:

- This is used as astringent.
- Used as soothing agent and gives relief from itching and pain during skin diseases and infections.
- It is also used in ring worm infections.

Storage: Stored in a well closed container dark in a cool place at a temperature not exceeding 25°C.

Label:

CALAMINE LOTION 30ml		
Composition: <ul style="list-style-type: none">• Calamine• Zinc oxide• Bentonite• Glycerine• Sodium citrate• Liquefied phenol• Rose water	BATCH NO. MFG. DATE: MFG. LIC. NO.: EXPIRY DATE:	
Category: Astringent		
FOR EXTERNAL USE ONLY		
Use: This is used as astringent.		
Storage: Stored in a well closed container dark in a cool place and temperature not exceeding 25°C		
MFG BY: ABCD	Batch:	Roll No.:

Results: