

**Exp. No.-6****Date:****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 &amp; 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	150gm		
2	Zinc oxide	50gm		
3	Bentonite	15gm		
4	Glycerine	5ml		
5	Sodium citrate	5ml		
6	Liquefied phenol	50ml		
7	Rose water	1000ml		30ml

**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.
- ✓ 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:**

<b>CALAMINE LOTION</b>		
<b>30ml</b>		
<b>Composition:</b> Calamine Zinc oxide Bentonite Glycerine Sodium citrate Liquefied phenol Rose water	<b>BATCH NO.</b>	<b>MFG. DATE:</b>
	<b>MFG. LIC. NO.:</b>	<b>EXPIRY DATE:</b>
<b>Category:</b> Astringent		
<b>FOR EXTERNAL USE ONLY</b>		
<b>Use:</b> This is used as astringent		
<b>Storage:</b> Stored in a well closed container dark in a cool place and temperature not exceeding 25°C		
<b>MFG BY:</b> ABCD	Batch:	Roll No.:

**Report:**