Label:

Composition: Storage: Calamine 50 ml contains: Calamine Lotion Zinc Oxide Calamine Topical Suspension USP Bentonite Mfg. lic. No.: Sodium Citrate Drying Agent • Skin Protectant Batch No. : Liquified Phenol Glycerin Mfg. date **Calamine lotion** Purified Water Exp. Date (50 ml) **Uses:** Used to treat sunburn, itching MRP Rs and skin irritation. (Inclusive of all taxes) **Precaution:** Marketed By: Manufactured By:

Calculation:

Practical - 6

	Date://
Aim: To prepare and submit 50 ml of Calamine lotion.	
Reference:	
Requirements:	
Apparatus/Equipment required:	
Chemical required:	
Theory:	

Calamine, also known as calamine lotion, is a medication used to treat mild itchiness. This includes from sunburn, insect bites, poison ivy, poison oak, or other mild skin conditions. It may also help dry out skin irritation. It is applied on the skin as a cream or lotion. Side effects may include skin irritation.

Calamine lotion Formulation Table:

S. No.	Chemical Name	Quantity Given (1000ml)	Quantity Taken (Factor x Quantity given)	Uses of Ingredients
1.	Calamine	150 gm		Soothing and antipruritic properties
2.	Zinc Oxide	50 gm		Protective
3.	Bentonite	30 gm		Stabilizer
4.	Sodium Citrate	5 gm		Controls the pH
5.	Liquified Phenol	5 ml		Preservative
6.	Glycerin	50 ml		Humectants & emollient
7.	Purified Water	Upto 1000 ml		Vehicle

Procedure:

- o Required amounts of calamine, ZnO and bentonite were weighed, placed in a mortar.
- The mixture was grinded to make them fine particles then add the glycerin, sodium citrate, liquefied phenol and small amount of water was added.
- o A fine paste was made out of them, transferred to measuring cylinder, mortar was rinsed with water and rinsed water was transferred to the cylinder volume was made upto 50 ml by adding water to the cylinder.
- Transferred to dispensing bottle.
- o Bottle was labeled and dispensed.

Storage: Store in well closed containers in a cool place. Do not freeze.

Signa: Shake well before use.

Uses: It is used to treat sunburn, itching and skin irritation caused by chickenpox, insect bites or stings and eczema. It acts as protective agent.

Observation and Evaluation:

Name of the Preparation	Test	Specification	Observation
	Appearance	Pink Coloured	
Calamine Lotion	Fragrance	Perfumed	
	pН	5-8	
	Consistency	Semi Liquid	
	Volume	50 ml	

Result: I have prepared and submit the______ in a neat and cleaned glass bottle and labelled it properly.

Note:- Calamine lotion is a formulation that prevents the UV- rays to reach the skin either by absorbing or by reflecting them.

Questions Bank

- 1. Write the chemical formula of calamine.
- 2. What are the Soothing agents?
- 3. Define the antipruritic property?
- 4. What is the use of protective agent?
- 5. What is the Humectants?
- 6. What is the emollient?
- 7. Write the difference between allergy and eczema?
- 8. What is the chemical formula of Glycerin?
- 9. What is the use of liquified phenol in calamine lotion?
- 10. What is Bentonite?