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# Diploma in Pharmacy 1<sup>st</sup> Year

## Pharmaceutics

### Experiment

#### To formulate calamine lotion

#### Aim:

To formulate calamine lotion as per monograph standards and dispense with appropriate packaging and labelling.

#### Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’  
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 23 - 26

#### Requirement :

Dispensing balance and fractional weights, mortar and pestle, measuring cylinder, coloured dispensing bottle with stopper, scissor. spatula, pipette, gum. white paper, calamine, zinc oxide, bentonite, glycerine, and purified water.

#### Theory :

Calamine, also known as calamine lotion, is used to treat minor itching, like itching from sunburn, bug bites, poison ivy, poison oak, and other minor skin disorders. It may also help in healing the skin irritations. It is used as a cream or lotion on the skin. Skin inflammation is one of the possible side effects.

#### Formulation Table for castor oil emulsion

Ingredients	For 100ml	For 20ml
Calamine	15g	3g
ZnO	5g	1g
Bentonite	3g	0.6g
Glycerine	5ml	1ml
Aqua ad.	q.s.	q.s.

## Procedure :

- The balance should be checked and appropriate corrections should be made.
- Required amounts of calamine, ZnO and bentonite should be weighed and then placed in a mortar.
- The mixture should be grinded to make fine particles.
- 1 ml of glycerine and 3.5 ml of water should be added and a fine paste should be made out of them.
- The product should be transferred to measuring cylinder and the mortar should be rinsed with water, then the rinsed water should be transferred to the cylinder.
- Volume should be made upto 20 ml by adding water to the cylinder.
- Finally, the lotion should be transferred to the dispensing bottle.

## Packaging and Storage :

1. The lotion should be stored at room temperature away from moisture and heat.
2. It should not be frozen or refrigerated.

## Label :

Labelling													
Calamine Lotion (I.P.) (100ml)													
R <sub>x</sub>	<table border="1"><thead><tr><th>Ingredient</th><th>Quantity</th></tr></thead><tbody><tr><td>Calamine</td><td>3gm</td></tr><tr><td>ZnO</td><td>1gm</td></tr><tr><td>Bentonite</td><td>0.6gm</td></tr><tr><td>Glycerine</td><td>1ml</td></tr><tr><td>Purified water</td><td>q.s.</td></tr></tbody></table>	Ingredient	Quantity	Calamine	3gm	ZnO	1gm	Bentonite	0.6gm	Glycerine	1ml	Purified water	q.s.
Ingredient	Quantity												
Calamine	3gm												
ZnO	1gm												
Bentonite	0.6gm												
Glycerine	1ml												
Purified water	q.s.												
FOR EXTERNAL USE ONLY													
Mfg. date:	11/21												
Exp. date:	11/24												
Lic No.:	K72PO												
Batch No:	00015												
Storage: Store at room temperature away from moisture and heat													

## Result :

The calamine lotion was prepared, packaged and labelled.

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