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Diploma in Pharmacy 1st 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 | 1 ml |
| 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 _x | <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.