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

## Pharmaceutics

### Experiment

#### To formulate white liniment BPC

#### **Aim:**

To formulate white liniment BPC as per monograph standards and dispense with appropriate packaging and labeling

#### **Reference :**

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’  
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 55 – 60

#### **Apparatus and Materials Required :**

Turpentine oil, oleic acid, ammonium chloride, dilute ammonia solution, surfactant, emollient, purified water, beaker, measuring cylinder, stirrer.

#### **Theory :**

Liniments are oil-based solutions or mixes of various ingredients, such as alcoholic soap solutions or emulsions that may also contain antimicrobial preservatives. These liquid or semi-liquid formulations are designed for external use and should be labelled as such. They are rubbed onto the diseased area and were previously known as embrocation. They are applied to the skin through friction and rubbing, with the oil or soap base facilitating application and massage. Liniments have antipruritic, astringent, emollient, analgesic, rubefacient, and counterirritant properties.

Ammonium chloride (white liniment) is an acidifying substance that raises the concentration of free hydrogen ions in the water. It treats metabolic alkalosis caused by chloride loss via vomiting, gastric suction, gastric fistula drainage, and pyloric stenosis. It is also used to treat diuretic-induced chloride depletion and alkalosis caused by too much alkalinizing medication.

## Formulation Table for castor oil emulsion

| S.No | Ingredients             | Required Quantity |
|------|-------------------------|-------------------|
| 1)   | Ammonium chloride       | 1.25gm            |
| 2)   | Dilute ammonia solution | 4.5ml             |
| 3)   | Oleic acid              | 8.33ml            |
| 4)   | Turpentine oil          | 25ml              |
| 5)   | Water                   | q.s.              |

### Procedure :

1. Turpentine oil and oleic acid should be mixed in a bottle.
2. An equal volume of warm water (50 °C) should be added to a dilute ammonia solution.
3. The dilute solution should be added in a small amount to the oily liquid and should be shaken vigorously after each addition.
4. Ammonium chloride should be dissolved in the rest of the water and should be added to the bottle (in small amounts) and shaken vigorously after each addition.

### Labelling :

| Labelling  |                       |          |
|--|-----------------------|----------|
| White Liniment BPC I.P. (10ml)   |                       |          |
| R <sub>x</sub>   | Ingredient            | Quantity |
| Brand<br>Logo  | Ammonium chloride     | 1.25gm   |
|  | Dil. ammonia solution | 4.5ml    |
|  | Oleic acid            | 8.33ml   |
|  | Turpentine oil        | 25.0ml   |
|  | Purified water        | q.s.     |
| Mfg. date: 11/21    Exp.date: 11/24<br>Batch No.: ABCDE    Lic. No.: 00140 |                       |          |
| Storage: Store at temperature between 30°F-60°F                            |                       |          |

### Packaging and Storage :

- 1) Liniment should be packed in a tinsplate container because the metal is protected by the oil in the external phase.
- 2) Liniment should be stored at temperature between 30°F and 60°F (2°C -15°C).

### Result :

The white liniment BPC was prepared, packaged and labelled.

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