


Label:

<p><u>Composition:</u> 50 gm contains:</p> <p>Cholesterol : Stearyl Alcohol : White Wax : White Petrolatum :</p> <p><u>Uses:</u></p> <p><u>Precaution:</u></p> <p>Manufactured By:</p>		<p>Storage:</p>
	<p>Hydrophilic Petrolatum</p> <p>Ointment base (50 gm)</p>	<p>Mfg. lic. No.:</p> <p>Batch No. :</p> <p>Mfg. date :</p> <p>Exp. Date :</p> <p>MRP Rs :</p> <p>(Inclusive of all taxes)</p> <p>Marketed By:</p>

Calculation:

$$\text{Factor} = \frac{\text{Required quantity}}{\text{Quantity given}} = \dots\dots\dots$$

Practical - 8

Date: / /

Aim: To prepare and submit 50 gm of Hydrophilic Petrolatum Simple ointment base (Absorption Base).

Reference:.....

Requirements:

Apparatus/Equipment required:.....

Chemical required:.....

Theory:

Simple ointment (without medicament) can be used as emollient. Oily type of bases provides more penetration power. To increase the consistency, hard paraffin is included in the formulation. Simple ointment which is composed of cetostearyl alcohol, wool fat, yellow or white paraffin and hard paraffin is used as ointment base. Absorption bases contain an oleaginous material and a water-in-oil (w/o) emulsifier so that they can absorb water to form or expand w/o emulsions. Absorption bases are useful as emollients, although they do not provide the degree of occlusion afforded by the oleaginous bases. Emollients are preparations that soften and soothe the skin. These preparations may be used to reduce the dryness and scaling of skin. However, they are greasy because the external phase of the emulsion is oily. Absorption bases are not easily removed from the skin with water.

Hydrophilic Petrolatum Ointment Base Formulation Table:

S. No.	Chemical Name	Quantity Given (1000 gm)	Quantity Taken (Factor x Quantity given)	Uses of Ingredients
1.	Wool fat	50 gm		Emollient
2.	Hard paraffin	50 gm		Emollient
3.	Cetostearyl Alcohol	50 gm		Emulsifying agent
4.	White soft paraffin	850 gm		Ointment Base

Procedure:

- Accurately weigh all the ingredients.
- Add hard paraffin and Cetostearyl alcohol in evaporating dish.
- Melt above mixture on water bath.
- Then add wool fat and white soft paraffin into the previous mixture.
- Stir until all the ingredients are melted and form homogeneous mixture.
- Remove from the water bath and cool.
- Transfer it into a suitable container and label.

Storage: It should be stored in tightly closed and completely filled containers.

Uses: Ointment base, Vehicle.

Observation and Evaluation:

Name of the Preparation	Test	Specification	Observation
Hydrophilic Petrolatum Ointment base	Description		
	Colour		
	Odour		
	Volume		

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

Questions Bank

1. What is the Wool fat?
2. What is the Hard paraffin?
3. Define the Ointment base.
4. What is the White soft paraffin?
5. What is the penetration power?
6. What is the water-in-oil (w/o) emulsion?
7. Define the emollient.
8. What is the homogeneous mixture?
9. What is the use of Hydrophilic Petrolatum Simple ointment base?
10. What is the chemical structure of Cetostearyl Alcohol?