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Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To formulate turpentine liniment

Aim:

To formulate turpentine liniment 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 51 – 54

Apparatus and Materials Required :

Camphor, soft soap, turpentine oil, distilled water, mortar and pestle, measuring cylinder, and glass rod.

Theory :

Turpentine oil and camphor are both rubefacients and counterirritant. Counterirritants are substances that irritate the skin by themselves, creating skin stimulation. They can be used to treat painful muscle, tendon, and joint injuries. Turpentine liniment is a soap emulsion that is o/w Saponification of sodium/potassium hydroxide with higher fatty acids produces soft soap. Soft soap is a detergent lubricant and skin permeation enhancer, along with its emulsifying capabilities.

The bottle method is ideally suited for compounding since turpentine oil is less viscous and soft soap is easy to spread.

Procedure :

1. 3.75gm of soft soap should be weighed and transferred to a mortar and should be mixed gradually with about 5ml of distilled water along with constant trituration to get a cream-like consistency.

- 2.5gm of camphor should be weighed and transferred to a measuring cylinder 2 containing 32.5ml of turpentine oil. Camphor should be dissolved by stirring.
- Camphorated turpentine oil should be added in drops to the mortar with thorough levigation unless whole of camphorated turpentine oil is added.
- The contents should be transferred to a measuring cylinder and the required volume should be made up by adding subsequent washings of a mortar and pestle with distilled water.
- The liniment should be mixed thoroughly.
- Then the final product should be transferred to a dispensing bottle and secured with a thread and dispensed in the usual pharmaceutical manner.

Formulation

S.No	Ingredients	Required Quantity
1)	Camphor	2.50gm
2)	Soft Soap	3.75gm
3)	Turpentine oil	32.50ml
4)	Distilled water to make	q.s.

Labelling :

Labelling		
Turpentine Liniments I.P. (100ml)		
R _x <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Brand Logo</div>	Ingredient	Quantity
	Camphor	2.50gm
	Soft soap	3.75gm
	Turpentine oil	32.5ml
	Distilled water	q.s.
Mfg. date: 11/21	Exp. date: 21/24	NO SIDE EFFECTS
Batch No.: 10/02/24	Lic. No.: 00242	
Caution: Keep away from children		
Storage: Store in cool and dry place.		

Packaging and Storage :

- Liniment should be stored in a well-closed container.
- It should be kept in a cool place away from light.

Result :

The turpentine liniment was prepared, packaged and labelled