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Diploma in Pharmacy 1st Year
Pharmaceutics
Experiment
To Formulate Cetrimide Cream

Aim:

To formulate cetrimide cream 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 40 - 44

Requirment :

Two beakers, glass rod, thermometer, container, distilled water, cetostearyl alcohol, liquid paraffin, and cetrimide.

Theory :

Pharmaceutical creams are semisolid formulations that comprise of one or more medicinal ingredients dissolved or distributed in a water-washable base, such as a w/o emulsion or an o/w emulsion. Creams have a soft, spreadable consistency. cold cream is an example of a w/o cream, and hydrophilic ointment is an example of an o/w cream. Creams are mostly employed in topical skin careproducts as well as rectally and vaginally applied.

Cetrimide is an antiseptic that treats infection and provides relief from irritation in the infected area. Cetrimide, included in Care Antiseptic First Aid Cream, has antibacterial characteristics Minor burns, grazes, and diaper rash can all be treated with this lotion. Cetrimonium bromide is an active ingredient in cetrimide cream. By suppressing the growth of bacteria, cetrimide cream cleans and prevents smell.

Formulation Table for castor oil emulsion

Ingredients	Master Formula (1000g)	Working Formula (10g)
Cetrimide	3g	0.003g
Cetostearyl alcohol	50g	0.5g
Liquid paraffin	500ml	5ml
Distilled water	q.s.	q.s.

Procedure :

- Ingredients should be measured in a top loading balance.
- Distilled water should be heated in water bath at 60°c -70°c.
- Oil phase should be prepared in one beaker. Cetosteryl alcohol should be dissolved in liquid paraffin with the help of hot distilled water.
- Water phase should be prepared in another beaker. Cetrimide should be dissolved in purified water at the same temperature.
- The warm oily phase should be dissolved into aqueous phase.
- The compound should be stirred continuously until emulsion is formed and cooled.
- A glass rod should be used to transfer the mixture to a container or tube.

Packaging and Storage :

1) The cream should be stored at the room temperature.
2) It should be kept away from heat and direct light.
3) It should not be frozen unless required by package insert.
4) It should be kept away from children and pets.

Label :

Labelling

Cetrimide Cream I.P. (10gm)			
R_x		**Ingredient**	**Quantity**
Brand Logo		Cetrimide Cetostearyl alcohol Liquid paraffin Distilled Water	0.003gm 0.5gm 5ml q.s.
Lic No.: 00142	Batch No.: ABCD		
Mfg. date: 11/21	Exp. date: 11/24		
Caution: FOR EXTERNAL USE		NO SIDE EFFECTS	
Storage: Store in cool and dry place			

Result :

The cetrimide cream was prepared, packaged and labelled.