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Diploma in Pharmacy 1st Year
Pharmaceutics
Experiment
To formulate general purpose shampoo.

Aim:

To formulate general purpose shampoo.

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam’ “Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 91 – 94

Apparatus and Materials Required :

Sodium lauryl sulphate, rose water, disodium-orthophosphate, stirring rod, egg, water bath, stirring rod, beaker, and measuring cylinder.

Theory :

- These shampoos account for a significant section of the market and are used for their cleansing properties. They are transparent liquids or lotions with a viscosity that allows them to be easily poured on palms and applied on hair The amount of surfactants used in their formulation is slightly higher than required in order to produce a strong 'detersive' (detergent-like) action and a significant volume of lather. Shampoos for normal hair, oily hair, dry hair, damaged hair, etc. are all sub-categories of this type. These sub-categories are expanding on a daily basis in response to consumer and market demand.
- These shampoos are well-liked by the general public. This is due to the fact that they contain synthetic detergents that work effectively in both hard and soft water and do not leave any residue on the hair. Anionic surfactants, which make up roughly 15-20% of the shampoo, are the most important component. Foam stabilisers such as alkanolamides are employed in addition to anionic surfactants. For a good cleaning action, dense and copious foam is essentially required.

Procedure :

1) Igm of Sodium lauryl sulphate should be dissolved in 15 ml rose water
2) The heat should be applied for 3 minutes to get a proper solution.
3) 0.5 gm disodium-orthophosphate should be dissolved in 10 ml water and should be heated for few minutes
4) After that both the solution should be mixed with continuous stirring
5) An egg should be ruptured and half of the portion of the egg yolk and white part should be mixed vigorously before adding it to the solution.
6) The formed solution should be shaken properly.

Formulation

Ingredients	Required Quantity
Sodium laureth sulphate, 40% active	1gm
Rose water	15ml
Dosodium-orthophosphate	0.5gm
Deionised water	q,s,to 100

Result :

The general purpose shampoo was formulated and submitted.

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