



وقدة التعليم الإلكتروني
e-Learning Solutions

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Course Title

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Shampoo

- **Shampoo is a hair care product present commonly in the form of viscous liquid used for cleaning hair and remove the unwanted buildup of sebum.**
- **It is applied to wet hair and rinsing out.**
- **The main component is sodium lauryl sulphate that is used as a surfactant (cleanser).**



Shampoo

R/

Coconut oil	14 ml
Olive oil	3 ml
Castor oil	3 ml
KOH 85 %	15.8 ml
Glycerol	2 gm
Ethyl alcohol	4 ml
Water	33.5 ml
Send	15 g.



Method of preparation

- 1- On stainless steel dish put three oils with the amount of KOH and alcohol and leave on water bath.**
- 2- After time alcohol evaporate and the ingredient in dish form a solid layer on the surface so add alcohol again (1-2ml) to dissolve this layer and leave 5-10 minutes .**

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3- Make a test for shampoo to see if it is formed or not (take one drop from dish and put it in test tube containing water then shake = positive result: when giving permanent froth and clear solution so the reaction is completed between KOH and oils , But if the solution after shaking remaining turbid and the froth disappear = It is -ve result for shampoo formation and in this case add alcohol again to (oils and KOH) and leave on water bath till alcohol evaporation and stand 5-10 minutes then make the test again.



4-when positive result is obtained, heat water and glycerol in test tube on direct flame (75-80 °C) and add it to the stainless steel dish components and leave on water bath till Clear yellow transparent viscous liquid shampoo is formed.

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Comment:

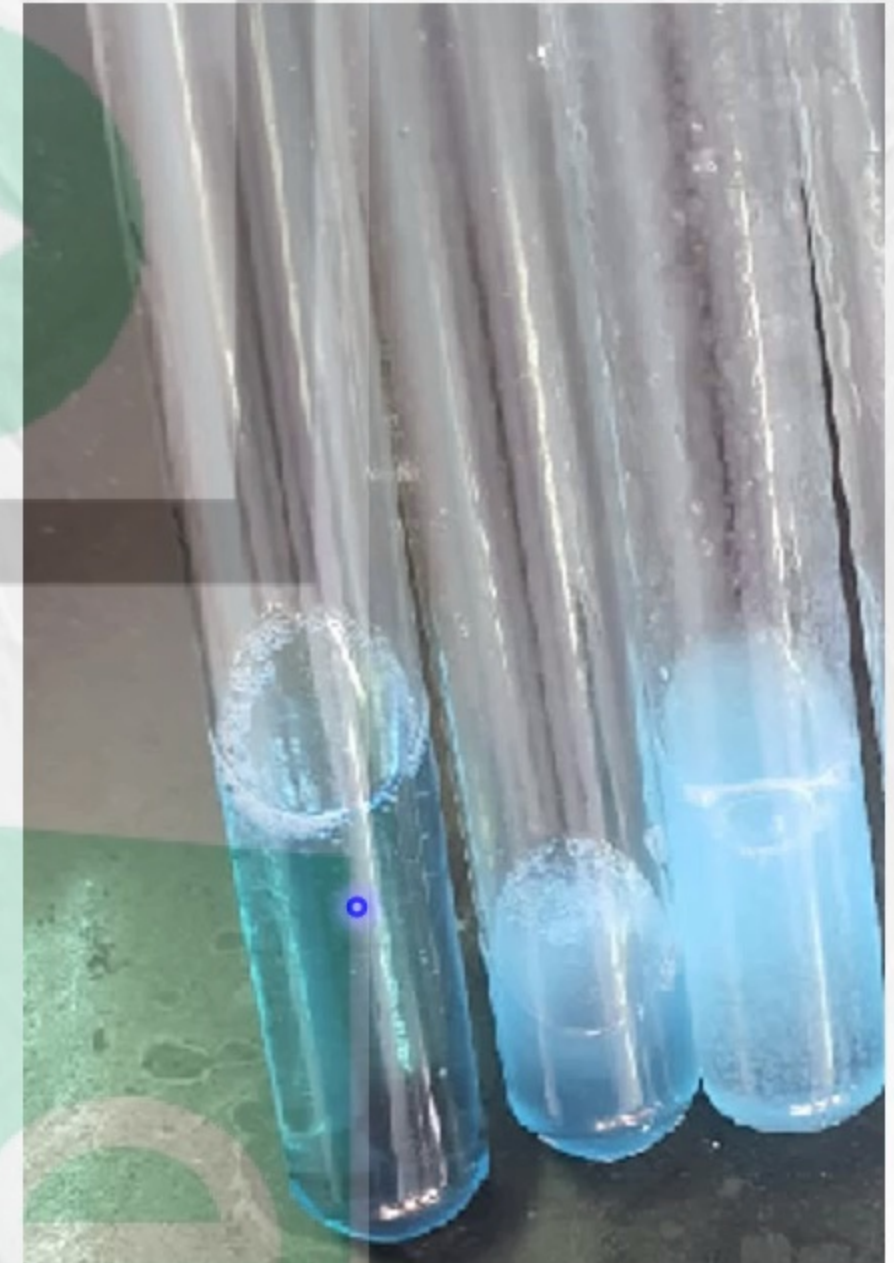
- 1- Oil Phase: Coconut oil , olive oil & castor oil.**
- 2- These oils (fatty base) is saponified by KOH**
- 3- Aqueous phase: water and glycerol**
- 4- Alcohol: to enhance the process of saponification**
- 5- Glycerol: for wetness of hair**

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Comparison:

**Difference between the clear
Yellow transparent shampoo
and the turbid one**



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