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Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To Prepare cod liver oil emulsion

Aim:

To formulate cod liver oil emulsion 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 19 - 22

Requirment :

Castor oil, acacia gum, water, mortar and pestle, beaker and measuring cylinder.

Theory :

Vitamins A, D, B. and K, as well as vegetable oil, emulsifier, antioxidant, preservative, densifier, and water, are all included in the cod liver oil emulsion. The emulsion, which has good dispersivity and stability, can be consumed directly or added into fresh milk to make stable and reinforced milk. It can boost body's immunity and helps in preventing and treating the diseases caused due to vitamin A, D, E. and K deficiencies.

As cod liver oil is a fixed oil, it needs to be emulsified with acacia gum. Th ratio is 4:2:1 (oil: water: gum). As a result, the primary emulsion will be made with 60ml cod liver oil, 30ml cinnamon, and 15g acacia gum.

Formulation Table for cod liver oil emulsion

S.No.	Ingredient	Required Quantity
1	Cod Liver Oil BP	60ml
2	Acacia BP	15g
3	Double Strength Chloroform Water BP	100ml
4	Freshly Boiled & Cooled Purified Water	q.s.

Procedure :

1. The cod liver oil should be placed in a dry, flat bottomed mortar.
2. The acacia should be added and mixed very lightly and briefly.
3. The cinnamon water should be added immediately and mixed vigorously until a clicking sound is heard and a white primary emulsion is formed.
4. Continuous mixing should be done for a few minutes to stabilise the primary emulsion

Packaging and Storage :

- Emulsion should be preserved in tight containers.
- It can be bottled or packaged in containers from which air has been expelled by the production of a vacuum or by an inert gas.

Label :

Labelling		
Cod Liver Oil Emulsion I.P. (200ml)		
R _x	Ingredient	Quantity
<div style="border: 1px solid black; padding: 5px; text-align: center;"> Brand Logo </div>	Cod Liver Oil	60ml
	Acacia	15gm
	Double strength water	100ml
	Purified Water	q.s.
Mfg. date:	11/21	
Exp. date:	11/24	
Lic No.:	0032567	
Batch No.:	4432	
Storage: Should be stored at room temperature		

Result :

The cod liver oil emulsion was prepared, packaged and labelled.