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# Diploma in Pharmacy 1<sup>st</sup> 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 <sub>x</sub>	<table border="1"><thead><tr><th>Ingredient</th><th>Quantity</th></tr></thead><tbody><tr><td>Cod Liver Oil</td><td>60ml</td></tr><tr><td>Acacia</td><td>15gm</td></tr><tr><td>Double strength water</td><td>100ml</td></tr><tr><td>Purified Water</td><td>q.s.</td></tr></tbody></table>	Ingredient	Quantity	Cod Liver Oil	60ml	Acacia	15gm	Double strength water	100ml	Purified Water	q.s.
Ingredient	Quantity										
Cod Liver Oil	60ml										
Acacia	15gm										
Double strength water	100ml										
Purified Water	q.s.										
<table border="1"><tr><td>Brand</td><td></td></tr><tr><td>Logo</td><td></td></tr></table>	Brand		Logo								
Brand											
Logo											
Mfg. date:	11/21										
Exp. date:	11/24										
Lic No.:	0032567										
Batch No.:	4432										
<b>Storage:</b> Should be stored at room temperature											

### Result :

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

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