

Experiment-6

Pharmaceutics

D.Pharma 1st Year Notes

Experiment-6

- **To prepare and submit 30ml of Cod Liver Oil emulsion.**

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Experiment-6

Aim: To prepare and submit 30ml of Cod Liver Oil emulsion.

Reference:

- Mehta R.M., Dispensing Pharmacy, Vallabh Prakashan, New Delhi, 2017;217 Requirements:

Apparatus Required:

- Mortar & pestle, weigh balance, measuring cylinder, glass rod, spatula, beaker, funnel etc.

Chemical Required: Cod liver oil, Egg yolk, Purified water q.s

Principle:

- An emulsion is a mixture of two or more liquids that are normally immiscible (unmixable or unblendable) owing to liquid-liquid phase separation. Depending upon the nature of the dispersed phase, the emulsions are classified as (i) Water-in-oil emulsion (W/O) (ii) oil in water emulsion (O/W). Cod liver oil is a rich sources of vitamin D and therefore used as an anti-rachitic agent.

Formula:

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1.	Cod liver oil	30 ML		
2.	Egg yolk	4 ML		
3.	Water Q.S	60 ML		30 ML

Calculation:

Procedure:

- Egg yolk is separated from the broken egg and placed in a measure. Equal volume of waters is added and mixed thoroughly.
- The calculated volume of the above egg yolk is placed in a mortar.
- The calculated volume of cod liver oil is added to the mortar and mixed with constant stirring.

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- Purified water (1/3rd the total quantity) is gradually added with constant trituration.
- The mixture is strained through a muslin cloth.
- Mortar and pestle are rinsed with little volume of water and transferred through the muslin cloth.
- The volume is adjusted to the required level with water in a measuring cylinder.
- The contents are mixed well and transferred into a narrow-mouthed container.
- The container is capped, polished, labelled and dispensed.

Use:

- It is used as an Anti-rachitic agent (in deficiency of vitamin D).

Storage:

- It should be stored in a tightly well closed container in a cool place.
Category: Anti-rachitic (in deficiency of vitamin D)

Dose:

- Not more than 10ml daily.

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Label:

COD LIVER OIL EMULSION 30ML		
Composition: <ul style="list-style-type: none">• Cod liver oil• Egg yolk• Purified water q. s	BATCH NO.	
	MFG. DATE:	
	MFG. LIC. NO.:	
	EXPIRY DATE:	
Category: Anti-rachitic (in deficiency of vitamin D)		
FOR INTERNAL USE ONLY		
Use: It is used as an Anti-rachitic agent (in deficiency of vitamin D)		
Storage: It should be store in a tightly well closed container in a cool place		
MFG BY: ABCD	Batch:	Roll No.:

Results: