

Experiment-5

Pharmaceutics

D.Pharma 1st Year Notes

Experiment-5

- To prepare and submit 30ml of Castor oil emulsion..

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Experiment-5

Aim:

- To prepare and submit 30ml of Castor 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:

- Castor oil and Cinnamon 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) Liquid paraffin is primarily used as a pediatric laxative in medicine and is a popular treatment for constipation and encopresis.
- Castor oil emulsion is used as a laxative, to empty the GI tract, while the patient is prepared for the colon X-ray, proctoscopy and endoscopic examination.

Formula:

Sl. No	Ingredients	Official Formula	Working Formula	Required Quantities
1.	Castor Oil	20 Ml		
2.	Cinnamon water Q.S.	50 Ml		25 Ml

Calculation:

Procedure:

- Weigh calculated quantity of acacia is taken in a mortar.
- Measured quantity of cinnamon water at once (calculated for primary emulsion formula) is added into the mortar.
- The content, in the mortar is triturated to form mucilage.
- Measured quantity of castor oil is added in small quantities, with constant, rapid and light trituration to produce a thick cream. Trituration is continued for three minutes to obtain a white stable emulsion.
- It is indicated by click sound.

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- Some more quantity of cinnamon water is added gradually with continuous trituration.
- The contents are transferred into a measuring cylinder.
- The pestle and mortar are rinsed with cinnamon water and rinsing are transferred into the measuring cylinder.
- The quantity is adjusted to the required volume using cinnamon water and the contents are stirred well.
- The castor oil emulsion is then transferred into a wide mouthed light resistant container.
- The bottle is capped, labelled, polished and submitted.

Use: Castor oil emulsion is used as a laxative, to empty the GI tract, while the patients is prepared for the colon X –ray, protoscopy and endoscopic examination.

Storage: It should be store in a tightly –closed container in a cool place. Category: Laxative.

Dose: 4 -6 ml

Direction: Take on an empty stomach followed with one full glass of water.

Label:

CASTOR OIL EMULSION (25ml)		
Composition: <ul style="list-style-type: none">• Castor oil• Cinnamon water q.s	BATCH NO. MFG. DATE: MFG. LIC. NO.: EXPIRY DATE:	
Category: Laxative		
FOR INTERNAL USE ONLY.		
Use: Castor oil emulsion is used as a laxative, to empty the GI tract, while the patients are prepared for the colon X –ray, protoscopy and endoscopic examination.		
Storage: It should be store in a tightly –closed container in a cool place.		
MFG BY: ABCD	Batch:	Roll No.:

Result: