

## Exp. No.-4

Date:

**Aim:** To prepare and submit 30ml of Castor oil emulsion.

**Reference:**

1. 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 patients is prepared for the colon X –ray, proctoscopy and endoscopic examination.

**Formula:**

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1	Castor oil	20ml		
2	Cinnamon water q. s.	50ml		25ml

**Calculation:**

**Procedure:**

- ✓ Weigh calculated quantity of acacia is take 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.
- ✓ 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		
<b>Composition:</b> Castor oil Cinnamon water q.s	<b>BATCH NO.</b>	<b>MFG. DATE:</b>
	<b>MFG. LIC. NO.:</b>	<b>EXPIRY DATE:</b>
<b>Category:</b> Laxative		
FOR INTERNAL USE ONLY.		
<b>Use:</b> 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.		
<b>Storage:</b> It should be store in a tightly –closed container in a cool place.		
<b>MFG BY:</b> ABCD	Batch:	Roll No.:

**Report:**