

Label:

<u>Composition:</u> 50 ml contains: Castor Oil : Mucilage of Acacia: Purified Water : <u>Uses:</u> For the temporary relief of occasional constipation. Bowel movement is generally produced in 6 to 12 hours. <u>Precaution:</u> Avoid use if hypersensitivity. Shake well before use. Manufactured By:		Storage: Keep tightly closed and away from excessive heat.
	CASTOR OIL EMULSION 50 ML For External Use Only.	Mfg. Lic. No.: Batch No. : Mfg. date : Exp. Date : MRP Rs : (Inclusive of all taxes) Marketed By:

Calculation:

$$\text{Factor} = \frac{\text{Required quantity}}{\text{Quantity given}} = \dots\dots\dots$$

Practical -4

Date: .../.../.....

Aim: To prepare and submit 50 ml of Castor oil emulsion.

Reference:.....
.....

Requirements:

Apparatus/Equipment required:.....

Chemical required:.....
.....

Theory:

It is prepared by wet gum method, in which a primary emulsion is prepared in the ratio of 4:2:1 (Castor oil: water: Acacia gum). Castor oil acts as purgative, acacia as emulsifying agent which forms a protective barrier and reduces interfacial tension. It is prepared by the wet-gum method for acacia emulsion.

Castor oil emulsion Formulation Table:

S. No.	Chemical Name	Quantity Given (30ml)	Quantity Taken (Factor x Quantity given)	Uses of Ingredients
1.	Castor Oil	8.0 gm		Purgative
2.	Mucilage of Acacia	2.0 gm		Emulsifying agent
3.	Purified Water	30 ml		Vehicle

Procedure:

1. Weigh the required amount of gum acacia 2 gm.
2. Put 2 gm, in porcelain mortar.
3. Add 4 ml of water (double amount of gum acacia) and make trituration till formation of uniform mucilage.
4. Add castor oil drop by drop while triturating rapidly and continuously till hearing cracking sound when emulsion is formed.

Note:- White creamy homogenous preparation that gives cracking sound by formation.

Storage: Preserve in tight containers.

Uses: It is used to treat constipation. It may also be used to clean out the intestines before a bowel examination/surgery.

Observation and Evaluation:

Name of the Preparation	Test	Specification	Observation
Castor oil Emulsion	Description		
	Colour		
	Odour		
	Volume		

Result: I have prepared and submit the _____ in a neat and cleaned glass bottle and labelled it properly.

Questions Bank

1. What is emulsion?
2. What is emulsifying agent?
3. What is the use of castor oil emulsion?
4. What is the constipation?
5. What is the homogenous preparation?
6. What is difference between laxative and Purgative?
7. Write the preparation methods name of emulsion.
8. Write the example of emulsifying agent.
9. Give another two examples of emulsion.
10. What are the testing methods name of emulsion?