

Castor Oil Emulsion

Aim: To prepare & dispense 30ml of castor oil emulsion.

Requirements: Castor oil, Acacia gum, water, mortar & pestle, Beaker & Measuring cylinder.

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

Procedure:

1. Mortar & pestle are thoroughly cleaned & dried.
2. 2g of acacia gum is weighed & transferred into mortar and triturated.
3. 4ml of water is measured and transferred into mortar & triturated with gum to form mucilage.
4. 8ml of castor oil is measured and added to mucilage in small quantities with continuous trituration.
5. After each addition trituration is briskly done without stopping until a clicking sound is produced. Then emulsion is known as primary emulsion. Then above 10ml vehicle is added with small quantities at a time with to get the homogeneous product. Then emulsion is transferred to measuring cylinder & more of vehicle is added to produce final volume of 30ml & is stirred thoroughly to get uniform emulsion. The preparation is transferred to bottle lid is placed & bottle is wiped to remove finger prints, labelled and dispensed.

Storage: Stored in well close container.

Direction: 1. For internal use only.

2. Should not be administered at bed time, preferred early in the morning.

Report:

| S.no | Ingredients | Official quantity | Required quantity |
|------|----------------|-------------------|-------------------|
| 1. | Castor oil | 26.6ml | |
| 2. | Purified water | 1000ml | |

LABEL:

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| CASTOR OIL EMULSION | |
| Name: | Age: |
| Sex: | Ref.no: |
| Date of dispensing: | |
| FOR INTERNAL USE ONLY | |
| Storage: Stored in air tight container in a cool place. | |
| Prescribed by: | |
| Dispensed by: | |
| Address of pharmacy: VNIPS | |