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Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To formulate castor oil emulsion

Aim:

To formulate castor oil emulsion as per monograph standards and dispense with appropriate Packaging and labelling

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 15 - 18

Requirment :

Castor oil, Acacia gum, water, mortar and pestle, beaker and measuring cylinder.

Theory :

It is made using wet gum method, which involves making a primary emulsion in a 4:2:1 ratio (fixed oil:water: cacia gum). Castor oil functions as a purgative, while acacia acts as an emulsifier, forming a protective barrier and lowering interfacial tension. The dispersion medium is water.

Formulation Table for castor oil emulsion

S.No.	Ingredient	required Quantity
1.	Castor Oil	8ml
2.	Acacia Purified	2ml
3.	Purified Water	q.s.

Procedure :

- Mortar and pestle should be cleaned and dried thoroughly.
- 2gm of acacia gum should be weighed and added into mortar and triturated.
- 4ml of water should be measured and transferred into mortar and triturate with gum to form mucilage.
- 8ml of castor oil should be measured and added to mucilage in small quantities with continuous trituration.
- After each addition trituration should be done quickly without stopping until a clicking sound is produced. Then emulsion is known as primary emulsion.
- Above 10ml vehicle should be added with small quantities at a time to get the homogeneous product.
- Emulsion should be transferred into measuring cylinder and more of vehicle should be added to produce final volume of 30ml and should be stirred thoroughly to get uniform emulsion.
- Finally, the preparation should be transferred into bottle and lid should be placed then bottle should be wiped to remove finger prints

Packaging and Storage :

1. The emulsion should be preserved in airtight and well closed container
2. It should be stored at a temperature not more than 25°C in well-filled.
3. It should be C in well-filled protected from light.

Label :

Labelling		
Castor Oil I.P. (30ml)		
R _x Brand Logo	Ingredient	Quantity
	Castor oil	8ml
	Acacia Purified	2gm
	Water	q.s.
Mfg. date:	11/21	Caution: Keep away from sunlight
Exp. date:	11/24	
Lic No.:	001423	
Batch No.	PNB003	
Storage: Keep at room temperature and away from light		

Result :

The castor oil emulsion was prepared, packaged and labelled.