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Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To prepare piperazine citrate elixir.

Aim:

To prepare piperazine citrate elixir

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page
no 8 - 10

Requirment :

Spatula, beaker, glass rod, funnel, measuring cylinder, piperazine citrate, chloroform spirit, glycerine, orange oil, syrup, and purified water.

Theory :

- Elixir is a transparent hydroalcoholic solution that has been sweetened and flavoured for oral use.
- Aromatic elixir, often known as alcoholic elixir, is a non- medicinal elixir that is mostly used as flavouring vehicle.
- Medicated elixirs have therapeutic value of their own.
- Piperazine citrate is used as an anthelmintic.
- Piperazine citrate is a medicinal substance that comes in a salt form and is soluble in purified water.
- Glycerine functions as a co-solvent. increasing the drug's solubility.
- Chloroform spirit is added that act as a preservative.
- Orange oil is used as flavouring agent.
- Piperazine citrate has an unpleasant taste (acid taste).
- Therefore, sweetening agent such as simple syrup is used to mask the taste of the drug.

Formulation Table for piperazine citrate elixir

Ingredient	Quantity required for 100 g
Piperazine Citrate	18 gm
Chloroform Spirit	0.5 ml
Glycerine	10 ml
Orange Oil	0.025 ml
Syrup	50 ml
Purified Water	q.s.

Procedure :

- Piperazine citrate should be dissolved in required amount of the purified water.
- Orange oil, glycerine, syrup, and chloroform spirit should be added and mixed gradually in the above mixture.
- Sufficient amount of purified water should be added to make up on the volume to 100ml.

Packaging and Storage :

The elixir should be stored in a well closed container at a temperature not exceeding 25°C.

Label :

Labelling			
Piperazine Citrate Elixir I.P (100ml)			
R _x		Ingredient	Quantity
Brand Logo		Piperazine citrate	18gm
		Chloroform spirit	0.5ml
		Glycerine	10ml
Mfg date: XYZ	Exp. date 0012	Orange oil	0.025ml
Lic. No: 00432	Batch No. 4532	Syrup	50ml
Strength: 18%w/v		Purified water	q.s.
Storage: Store at room temperature			

Result :

The piperazine citrate elixir was prepared, packaged and labelled.

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