

Experiment-3

Pharmaceutics

D.Pharma 1st Year Notes

Experiment-3

- To prepare and submit 20ml of Piperazine citrate elixir.

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Aim:

To prepare and submit 20ml of Piperazine citrate elixir.

Reference:

Mehta R.M., Dispensing Pharmacy, Vallabh Prakashan, New Delhi, 2017; 158 - 160

Requirements:

Apparatus Required:

- Mortar & pestle, weigh balance, measuring cylinder, glass rod, spatula, beaker etc.

Chemical Required:

- Piperazine citrate, chloroform spirit, glycerin, orange oil, syrup, purified water.

Principle:

- Piperazine Citrate Elixir is mainly an anthelmintic. This kind of drug works to paralyze parasites that may invade the host body and cause diseases.
- It therefore helps to remove the parasites and thus inhibit the spread of disease in the body. The medicine is used to treat ascariasis, enterobiasis, also called common pinworms.
- The drug immobilizes the parasitic worms first, which are later passed out of the body through stool.
- This drug can only be obtained with a proper prescription by your doctor and is not available over the counter. The medicine is available in the form a tablet or as syrup.

Formula:

Sl. No.	Ingredients	Official Formula	Required quantities
1	Piperazine citrate	180gm	
2	Chloroform spirit	0.5ml	
3	Glycerine	100ml	
4	Orange oil	0.25ml	
5	Syrup	500ml	
6	Purified water	1000ml	20ml

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Calculation:

Procedure:

- Dissolve piperazine citrate in part of water. Then mix with agitation orange oil, glycerin, syrup in chloroform spirit and pour in watery solution of piperazine citrate.
- Adjust the volume with sufficient purified water. Filter and transfer in a suitable container.

Storage: Stored in a well closed container at a temperature not exceeding 250C.

Use: It is used as anthelmintic which is used in the treatment of worm infections.

Label:

PIPERAZINE CITRATE ELIXIR 20ml	
Composition: Piperazine citrate Chloroform spirit Glycerin Orange oil Syrup Purified water	BATCH NO. MFG. DATE: MFG. LIC. NO.: EXPIRY DATE:
Category: Anthelmintic	
FOR INTERNAL USE ONLY.	
Use: It is used as an anti-helminthic zxs are used in the treatment of worm infections.	
Storage: Stored in a well closed container dark in a cool place and temperature not exceeding 250C	
MFG BY: ABCD	Batch: Roll No.:

Result: