

**Label:**

<p><b><u>Composition:</u></b>                      50 ml contains:                      Piperazine Citrate :                      Chloroform spirit :                      Glycerin :                      Orange oil :                      Syrup :                      Purified water up to 50 ml</p> <p><b><u>Uses:</u></b>                      Anthelmintic</p> <p><b><u>Precaution:</u></b>                      Not for diabetic &amp; alcohol dependent patients.</p> <p><b>Manufactured By:</b></p>	<p><b>Piperazine Citrate Elixir (B.P.)</b></p>	<p><b>Storage:</b> Protect from light.                      Keep out of reach of Children.</p>
		<p><b>ORAL ELIXIR SOLUTION (B.P.)</b>  <b>50 ML</b></p>
		<p><b>Mfg. Lic. No.:</b></p> <p><b>Batch No. :</b></p> <p><b>Mfg. date :</b></p> <p><b>Exp. Date :</b></p> <p><b>MRP Rs :</b></p> <p><b>(Inclusive of all taxes)</b></p> <p><b>Marketed By:</b></p>

**Calculation:**

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

## Practical -2

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

**Aim:** To prepare and submit 50 ml of Piperazine citrate elixir (B.P.).

**Reference:**.....

**Requirements:**

**Apparatus/Equipment required:**.....

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

**Theory:**

Elixirs are clear, flavored, sweetened hydroalcoholic liquid preparations for oral administration. The Percentage of alcohol varies from 4 to 40 %. In this elixirs Propylene glycol, ethanol, and glycerol these are all acts a vehicle and co-solvent to increase the solubility of poorly soluble ingredients. Chloroform spirit acts as a preservative. Invert syrup acts as a sweetening agent.

**Piperazine citrate elixir (B.P.) Formulation Table:**

S. No.	Chemical Name	Quantity Given (1000ml)	Quantity Taken (Factor x Quantity given)	Uses of Ingredients
1.	Piperazine Citrate	180 gm		Anti-helminthic
2.	Chloroform spirit	5 ml		Preservative
3.	Glycerin	100 ml		Co-solvent
4.	Orange oil	0.25 ml		Flavouring Agent
5.	Syrup	500 ml		Sweetening agent
6.	Purified water (q.s.)	upto 1000 ml		Vehicle

**Procedure:**

- Piperazine citrate is dissolved in small amount of purified water.
- Orange oil, glycerin, syrup and chloroform spirit is mixed.
- Sufficient volume is added to produce the final volume.

**Storage:** Store at a controlled temperature between 15°C and 30°C in a well-closed container.

**Uses:** It is an anti-helminthic medication. It is used in the treatment of worm infections.

**Observation and Evaluation:**

Name of the Preparation	Test	Specification	Observation
<b>Piperazine citrate elixir</b> <b>(B.P.)</b>	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. Define Elixir.
2. Write the category of Piperazine citrate elixir.
3. What is the mechanism of Piperazine Citrate Elixir?
4. What is the dose of Piperazine Citrate Elixir?
5. What is the role of Glycerin in Piperazine Citrate Elixir?
6. What is anti-helminthic medication?
7. What is Co-solvent?
8. What is Chloroform spirit?
9. What is Invert syrup?
10. What is flavouring agent?