

# Experiment-8

## Pharmaceutics

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**D.Pharma 1<sup>st</sup> Year Notes**

### **Experiment-8**

- To prepare and submit 20ml of Magnesium Hydroxide mixture.

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## Experiment-8

**Aim:** To prepare and submit 20ml of Magnesium Hydroxide mixture.

### Reference:

- Mehta R.M., Dispensing Pharmacy, Vallabh Prakashan, New Delhi, 2017; 150-151.
- Subrahmanyam C.V.S., Thimmasetty J.J, Prabhushankar G.L., Laboratory manual of Pharmaceutics. Vallabh Publication, Delhi, 2019; 47-48.

### Requirements:

#### Apparatus Required:

- Mortar & pestle, weigh balance, measuring cylinder, glass rod, spatula, beaker, funnel etc. Chemical Required:
- Magnesium sulphate, sodium hydroxide, light magnesium oxide and purified water.

### Principle:

- It is aqueous of colloidal dispersion of magnesium hydroxide.
- It is prepared by precipitation method and hydration method or both.
- It is not excessively thick or thin but holds design viscosity, it has two actions in low dose (1 -4ml) it acts as an antacid, while in higher dose (8–10ml) it acts as a laxative.

### Reaction:



### Formula:

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1.	Magnesium sulfate	47.5gm		
2.	Sodium hydroxide	50.5gm		
3.	Light magnesium oxide	15gm		
4.	Purified water	1000ml		20 MI

### Calculation:

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## Procedure:

- Dissolve sodium hydroxide in sufficient purified water contained in a beaker.
- Triturate Magnesium oxide in a mortar with the solution of hydroxide to form a smooth cream.
- Dissolve magnesium sulphate in sufficient water in a separate beaker.
- Add cream to the solution of magnesium sulphate with constant stirring. This mixture is set aside for 48 hrs.
- After 48 hrs pour off the supernatant liquid.
- Add hot purified water to the precipitate of magnesium hydroxide to wash the sulphate ions from precipitate.
- Transfer the washed precipitate to the suitable container and label it.

**Dose:** 1 to 4ml as antacid, 8 to 10ml as laxative.

**Storage:** Stored in an air tight container in a cool place. **Direction:** Shake well before use.

## Label:

MAGNESIUM HYDROXIDE MIXTURE 20ml	
<b>Composition:</b> <ul style="list-style-type: none"><li>• Magnesium sulfate</li><li>• Sodium hydroxide</li><li>• Light magnesium oxide</li><li>• Purified water</li></ul>	<b>BATCH NO.</b> <b>MFG. DATE:</b> <b>MFG. LIC. NO.:</b> <b>EXPIRY DATE:</b>
<b>Category:</b> Laxative.	
<b>FOR INTERNAL USE ONLY</b>	
<b>Use:</b> Laxative & Antacid	
<b>Storage:</b> Stored in a well closed container dark in a cool place and temperature not exceeding 25°C	
<b>MFG BY:</b> ABCD	<b>Batch:</b>
<b>Roll No.:</b>	

## Results: