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# Diploma in Pharmacy 1<sup>st</sup> Year

## Pharmaceutics

### Experiment

#### To formulate magnesium hydroxide mixture

#### Aim:

To formulate magnesium hydroxide mixture 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 27 - 30

#### Requirment :

Measuring cylinder, stirring rod, beaker, evaporating basin, weigh balance, sulphuric acid, magnesium oxide, sodium hydroxide, magnesium sulphate, chloroform, peppermint oil, and water.

#### Theory :

Magnesium hydroxide is an organic compound that is made up of magnesium and oxygen. It is found as the mineral brucite in nature. Magnesium hydroxide is available as an oral liquid suspension or chewable tablet and is used as an antacid or laxative.

Magnesium hydroxide is also used as a fire retardant because of its smoke-suppressing and flame-retardant qualities. It can also be applied topically to relieve canker sores (aphthous ulcers) or as a deodorant.

#### Formulation Table for castor oil emulsion

Ingredients	Required Quantity
Magnesium sulphate	10gm
Sodium hydroxide	1.5gm
Light magnesium oxide	5.25ml
Chloroform	0.25ml

Peppermint oil	0.5ml
Purified water freshly boiled and cooled	q.s.

## Procedure :

- Sodium hydroxide should be dissolved in purified water.
- Light magnesium oxide should be triturated with this solution to form a smooth cream.
- This suspension should be poured in a thin stream into a solution of the magnesium sulfate in purified water and should be stirred continuously during the mixing.
- The mixture should be kept aside in a closed container for 48 hrs.
- The precipitate should be allowed to subside, and clear liquid should be removed, then the precipitate should be washed with purified water until the washings give only a slight reaction for sulphate
- Chloroform and peppermint oil should be added to the mixture.
- The washed precipitate should be mixed with purified water, sufficient purified water should be added to produce the required volume.

## Packaging and Storage :

1. The mixture should be stored in a well closed container in a cool place.

## Label :

Magnesium Hydroxide I.P. (100ml)			
R <sub>x</sub>		Ingredient	Quantity
<div style="border: 1px solid black; padding: 5px; display: inline-block;">Brand Logo</div>		Magnesium sulphate	10gm
		Sodium hydroxide	1.5gm
Milk of Magnesia		Magnesium oxide	5.25
Shake Well Before use		Chloroform	0.25ml
Mfg. date: 11/21	Exp. date: 11/24	Peppermint oil	0.5ml
Batch No.: X42B	Lic. No.: 002345	Purified water	q.s.
Storage: Keep in cool place and away from sunlight and heat.			

## Result :

The magnesium hydroxide mixture was prepared, packaged and labelled.

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