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Diploma in Pharmacy 1st 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.

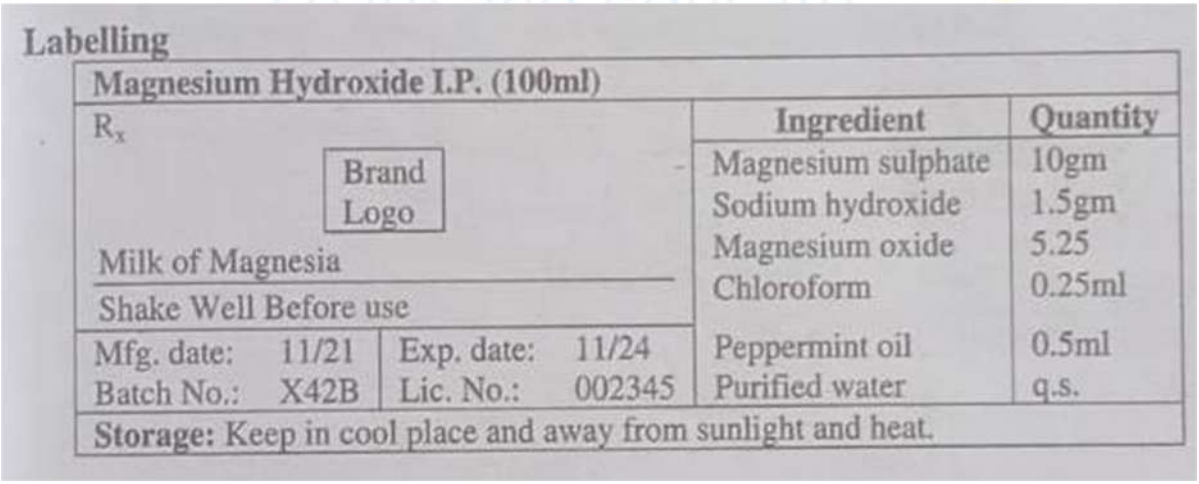
Procedure :

- 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 :



Labelling

Magnesium Hydroxide I.P. (100ml)

R_x

Brand Logo

Milk of Magnesia

Shake Well Before use

Ingredient	Quantity
Magnesium sulphate	10gm
Sodium hydroxide	1.5gm
Magnesium oxide	5.25
Chloroform	0.25ml
Peppermint oil	0.5ml
Purified water	q.s.

Mfg. date: 11/21 Exp. date: 11/24

Batch No.: X42B Lic. No.: 002345

Storage: Keep in cool place and away from sunlight and heat.

Result :

The magnesium hydroxide mixture was prepared, packaged and labelled.