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

## Pharmaceutics

### Experiment

To prepare and submit 100 ml of simple syrup of I.P 1996.

#### Aim:

To prepare and submit 100 ml of simple syrup of I.P 1996

#### Reference :

'Seth A.K' 'systematic approach to practical pharmaceutics edition 2010 published by S.Vikas and company' "Medical publisher" page no 5 - 7

#### Requirement :

**Chemical :** sucrose, purified water

**Apparatus :** Beaker, stirrer, spatula, volumetric flask, measuring cylinder and butter paper

#### Theory :

A syrup is a concentrated saturated solution of sucrose in purified water

Or

According to I.P syrup is a concentrated aqueous solution of 66.7% w/w sucrose formulation includes

**Vehicles :** purified water, portable water should not be used because it contains volatile and non volatile impurities.

**Adjuncty :**

**Stabilizers :** Used to prevent prestilization of sucrose and making a clean syrup glycerine, sorbital propelineglycol.

**Colouring Agents :** The impact a specific colour in a syrup. Colour dyes like amaranth.

**Flavouring Agents** : To impart a specific flavour in a syrup. Fruit juice like cheery,lemon etc.

**Preservatives** : Generally there are not needed in simple syrup because of low osmotic pressure. Benzoic acid, methyl paraben.

## Method of preparation

Hot process

Cold process / percolation

Agitation method

Preparation of tablet and injection

## Procedure for simple syrup :

- ◆ weight 66.7 g sucrose using butter paper by weighing balance and transfer into a volumetric flask
- ◆ Add purified water and heated with occasional stirring until the sucrose gets dissolved.
- ◆ Solution is then cooled and sufficient purified water is added to mark up the desired weight.
- ◆ Transfer it into a Amber coloured bottle and label it.

**Packing** : Amber coloured glass bottle of suitable size.

**Labelling** : label should contain the direction Replace the cap tightly after use and store in a cool and dark place.

**Storage** : At a temperature not exceeding 25°C

## Result :

It was found that 100 ml of syrup was successfully prepared and submitted.