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Diploma in Pharmacy 1st 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.

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