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

## Pharmaceutics

### Experiment

#### To formulate tetracycline capsule

#### Aim:

To formulate tetracycline capsule 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 79 – 81

#### Apparatus and Materials Required :

Mortar and pestle, empty capsules, sieve, hand operated capsule filling machine, volumetric flask, pipette, beaker, stop watch, measuring cylinder, Whatman filter paper, UV spectrophotometer, and disintegration test apparatus.

#### Theory :

- Tetracycline is a crystalline powder that is yellow and odourless. It is stable in air, although it darkens when exposed to direct sunshine. It is a water-insoluble antibiotic that is easily soluble in dilute acid and alkali hydroxide solutions. sparingly soluble in alcohol, and practically insoluble in chloroform and ether They can readily be absorbed and have different degrees of binding to plasma protein. They are concentrated in the bile by the liver and expelled in high amounts in biologically active form in the urine and faeces.
- Tetracycline hydrochloride capsule is an antibiotic that is prescribed to treat a variety of infections. It works against a wide range of bacteria as well as other organisms, including protozoan parasites. Tetracycline is often used to treat acne and other skin diseases such as pneumonia, vaginal and urinary infections, and *Helicobacter pylori* (the bacteria that can cause stomach ulcers). It is also used to treat Lyme disease and prevents anthrax infections.

## Procedure :

- 1) The required quantity of drug and other excipients should be weighed.
- 2) Starch should be dried and sieved through sieve number 100 and moisture should be less than 1.5%.
- 3) Talcum should be dried and sieved through 1005 and moisture should be less than 1%.
- 4) All the ingredients should be mixed uniformly using mortar and pestle.
- 5) Empty capsule shells of number "0" should be selected for filling the content in capsule shell.

## Formulation

Ingredients	Required Quantity
Tetracycline hydrochloride	250mg
Dried starch	250 mg
Dried talcum	25 mg

## Labelling :

Labelling		
Tetracycline Capsule I.P. (300mg)		
R <sub>x</sub>	Ingredient	Quantity
<div>Brand Logo</div>	Tetracycline hydrochloride	250mg
	Dried starch	25mg
	Dried talcum	25mg.
Mfg. date: 11/21    Exp. Date: 11/24		
LIC. No.: 00592    Batch No.: 003467		
<b>Caution:</b> Keep out of children reach.		
<b>Storage:</b> Store at cool and dry place.		

## Packaging and Storage :

- 1) Capsules should be packed in a plastic bottle.
- 2) It should be stored in tightly closed container in cool and dry place.

## Result :

The tetracycline capsule was prepared, packaged and labelled.