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

## Pharmaceutics

### Experiment

**To demonstrate the moisture permeation test of the capsules as per the monographs.**

#### **Aim:**

To demonstrate the moisture permeation test of the capsules as per the monographs.

#### **Reference :**

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam’  
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page  
no 169 – 172

#### **Apparatus and Materials Required :**

Capsules weighing balance, pellet, and watch

#### **Theory :**

The suitability of capsule packaging can be ensured by determining the permeation characteristics of single-unit and unit dose in accordance with the specifications provided in USP. In this test, a unit dosage is packed with a colour revealing desiccant pellet and is exposed to known relative humidity for a specific period of time.

This pellet suffers colour change in the presence of moisture. Absorption of moisture can be indicated by a colour change. The quantity of moisture can be calculated by subtracting the pretest weight from the after test weight. This test is extremely useful for determining the degree and rate of moisture penetration.

## Procedure :

- 1) The degree and rate of moisture penetration is determined by packaging the dosage unit together with a colour revealing desiccant pellet
- 2) Expose the packed unit to known relative humidity over a specified time
- 3) Observe the desiccant pellet for colour change
- 4) Any change in colour indicates absorption of moisture 5) By measuring pre test weight and protest weight of pellet, amount can be calculated

## Result :

The moisture permeation test of the capsules as per the monographs was studied.

