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Diploma in Pharmacy 1st Year
Pharmaceutics
Experiment
To demonstrate the weight variation test of the tablets as per the monographs.

Aim:

To demonstrate the weight variation test of the tablets 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 127 – 130

Apparatus and Materials Required :

Tablets and weighing balance.

Theory :

It is desirable that all the tablets of a particular batch should be uniform in weight. If any weight variation is there, it should fall within the prescribed limits. Tablet weight is mainly affected by factors, like tooling of the compression machine, head pressure, machine speed, and powder flow. In consistent powder or granulate, density and particle size distribution are common sources of weight variation during compression. Variation between tablets with respect to dose and weight must be reduced to a minimum.

Procedure :

Using a Vernier Calliper

1) Select20 tablets randomly, weigh individually, and calculate the average weight.

2) Not more than two of the individual weights should deviate from the average weight by more than the percentage given in the Pharmacopoeia and none deviate by more than twice that percentage.
3) The LP/B.P. and U.S.P. limits for tablet weight variation are given below:

I.P./B.P.	Limit	U.S.P.
80mg or less	(± 10%)	130mg or less
More than 80mg or less than 250mg	(±7.5%)	130mg to 324mg
250mg or more	(± 5%)	More than 324mg

Result :

The weight variation test of the tablets as per the monographs was performed.

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