

WELCOME

TO



FDSPharmacy

Learn and Educate

This is an Education Platform

We provide Free PDF Notes and Videos Classes for Pharmacy Students

Web Site <http://www.fdspharmacy.in/>

You tube <https://www.youtube.com/channel/UC77iEsiuZolU4pB8WAJIR5Q>

What app <https://chat.whatsapp.com/IzSgXtFEvhS4LN5xhUgq5z>

Telegram <https://t.me/+cvxm17xSloA4MjVI>

Face book <https://www.facebook.com/Fdspharmacy-105764311994440/>

E-mail fdspharmacyinfo@gmail.com

Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To demonstrate the weight variation test of the capsules as per the monographs.

Aim:

To demonstrate the weight variation 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 159 – 162

Apparatus and Materials Required :

Capsule and weighing balance.

Theory :

In accordance with BP, this test can be performed by individually weighing 10 capsules. The content of every capsule is removed using appropriate techniques. Each empty shell is accurately weighed. The content weight is obtained by subtracting the weight of empty capsule shell from that of the filled capsules. The active substance content in each capsule is estimated from the mass of contents removed from each capsule The Acceptance Value (AV) is obtained by using the formula.

$$X_i = W_i \times A/W$$

Where, X_1, X_2, \dots, X_n = Individual estimated contents of the dosage units tested
 W_1, W_2, \dots, W_n = Individual masses of the dosage units tested

W = Mean of individual weights (W_1, W_2, \dots, W_n)

In accordance with BP and USP, the AV of 10 capsules should be less than or equal to 15%. In case the AV is greater than 15%, the test is repeated with the next 20 capsules and their AV is calculated. In order to meet the acceptance criteria, the final AV of 30 capsules should be less than or equal to 15% and no individual content of the capsule should be less than $(1-2.5 \times 0.01) M$ or more than $(1+2.5 \times 0.01) M$. Calculation of acceptance value under mass variation or content uniformity.

Procedure :

For Hard Gelatin Capsules

- 1) Weigh 20 capsules individually and determine the avg weight
- 2) The individual wts should be within limit of 90-110% of avg wt. If not all of capsules fall within the limits.
- 3) Weigh 20 capsules individually.
- 4) Remove the net content of each capsule with the aid of a small brush.
- 5) Weigh the empty shells individually.
- 6) Determine the avg net content from the sum of individual net wt.
- 7) Then determine the difference b/w each individual net content and avg net content.

For Soft Gelatin Capsules

Proceed as directed under hard capsules, but determine the net wt of the contents of individual capsules as follows:

- 1) Weigh the capsules individually then cut and open the capsules
- 2) Remove the contents by washing with the suitable solvent
- 3) Allow the solvents to evaporate from the shells at room temp
- 4) Weigh the individual shells
- 5) Calculate the net contents

Result :

The weight variation test of the capsules as per the monographs was studied.

Hello

Friends

**If you Get Any Help From This Notes /
Videos**

Next You Turn To Help Us

Please Contribute Some Amount

To Our

FDSPharmacy Team

Phone pe 6398439940

Paytm 6398439940

Google Pay 6398439940



Amir Khan

Thank You

Keep Supporting