

Manuscript ID : 00000-92681

International Journal of Pharmacy and Technology

Volume 10, Issue 3, September 2018, Pages 6651-6676, Page Count - 26



Source ID : 00000239

EFFECT OF PH OF THE DISSOLUTION MEDIA ON THE RELEASE PROPERTIES OF GLIBENCLAMIDE, METFORMIN, AND ACARBOSE TABLETS

Omar S Salih ^{(1)*}

⁽¹⁾ College of Pharmacy, University of Baghdad, Baghdad, Iraq.

* Corresponding author

Abstract

Diabetes is a disorder of metabolism, the way the body uses digested food for growth and energy. The solubility of glibenclamide (GLB), metformin and acarbose were determined in pH 1.2 pH 5.5 and pH 6.8 in triplicate using the shake-flask method using water bath shaker at 37oC. In vitro dissolution release showed that GLB showed higher release in the duodenum and small intestine (pH5.5 and pH6.8) than acidic stomach pH (pH1.2) due to the weak acid nature of the drug and this the opposite for metformin and acarbose because of high pKa value for these drugs.

Author Keywords

Acarbose, Glibenclamide, Metformin, Diabetes, PH-solubility profile

Acknowledgement

Thanks to college of pharmacy, Baghdad University for providing the necessary materials and equipments to complete the project.

ISSN Print:

Source Type: Journals

Publication Language: English

Abbreviated Journal Title: IJPT

Publisher Name: B. Latha Reddy

Major Subject: Health Sciences

Subject area: Pharmacy

ISSN Online: 0975-766X

Document Type: Review Article

DOI:

<https://doi.org/10.32318/ijpt/s-2018/v-10,i-3/0975-766X/6651-76>

Access Type: Open Access

Resource Licence: CC BY-NC

Subject Area classification: Health Professions

Source: SCOPE DATABASE