

Abstract

This thesis consists of three parts, each part includes an introduction, literature review and descriptive experimental work for the studied drugs; in addition to references and a summary in Arabic.

Part I: Stability indicating methods for determination of Tolfenamic acid in presence of its potential impurities. This part includes: Section (A): introduction and literature review. Section (B): Different Spectrophotometric Methods for Determination of Tolfenamic acid and of its potential impurities. Section (C): Simultaneous Determination of Tolfenamic Acid (TOL) and Two Potential Impurities by Multivariate Calibration Methods. Section (D): Simultaneous Determination of Tolfenamic Acid (TOL) and Two Potential Impurities by TLC- Densitometry Method. Section (E): Simultaneous Determination of Tolfenamic Acid (TOL) and Two Potential Impurities by RP-HPLC Method

Part II: Determination of Amlodipine Besylate and Perindopril Arginine in binary mixture. This part includes: Section (A): Introduction and Literature Review. Section (B): Determination of Amlodipine Besylate and Perindopril Arginine by Different Spectrophotometric Methods. Section (C): Mean Centering of Ratio Spectra Spectrophotometric Method for Determination of Amlodipine Besylate and Perindopril Arginine.. Section (D): Simultaneous Determination of Amlodipine Besylate and Perindopril Arginine by RP-HPLC Method.

Part III: : Determination of Amlodipine Besylate and Atorvastatin Calcium . This part includes:Section (A): Introduction and Literature Review.. Section (B): Simultaneous Determination of Amlodipine Besylate and Atorvastatin Calcium by Isoabsorptive Spectrophotometric Method. Section (C): Simultaneous Determination of Amlodipine Besylate and Atorvastatin Calcium by Dual Wavelength Spectrophotometric Method. Section (D): Simultaneous Determination of Amlodipine Besylate and Atorvastatin Calcium by TLC-Densitometric Method. Section (E): Simultaneous Determination of Amlodipine Besylate in combination with Perindopril arginine or Atorvastatin calcium by Multivariate Calibration Methods with Application of Model Updating.

Key words : Tolfenamic Acid, Impurities, Amlodipine Besylate,Perindopril Arginine and Atorvastatin Calcium