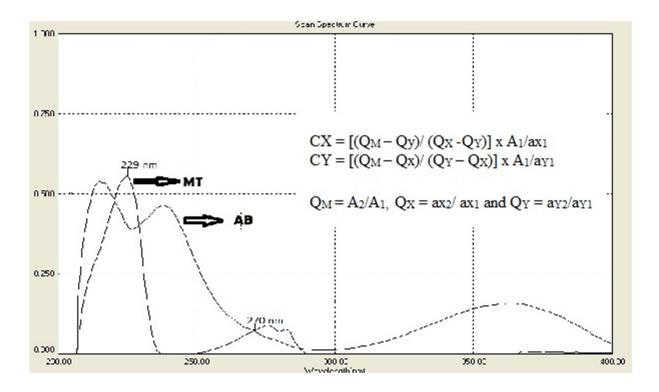
Simultaneous Estimation of Metoprolol Tartrate and Amlodipine Besylate by Absorbance Ratio Method

Kamal Shah*1 and Pradeep Mishra2

Institute of Pharmaceutical Research, GLA University, 17 Km Stone, NH-2, Mathura-Delhi Road, P.O. Chaumuhan, Mathura-281406 (U.P.)



Abstract

A simple and cost effective spectrophotometric method is developed for the determination of metoprolol tartrate and amlodipine besylate in bulk drug and tablets. In the present case the method developed based on absorbance ratio method (Q Method). Absorbance ratio method uses the ratio of absorbances at two selected wavelengths, one which is an isoabsorptive point (λ_2) 270 nm and other being the absorption maxima (λ_1) 229 nm of one of the two components The drugs obeys beer' law in the concentration range 10-100 µg.ml⁻¹. Results of analysis were validated statistically and by recovery studies. The method was found to be suitable for routine determination of metoprolol tartrate and amlodipine besylate in bulk drug and tablets.

Keywords: Metoprolol; Amlodipine; Spectrophotometric; Q Method; β-blockers