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Research Article

UV Spectrophotometric Method Development and Validation for quantitative estimation of Nizatidine

Rahul Kumar Garg*[1], Indrajeet Singhvi[1]

[1]Pacific College of Pharmacy, Udaipur (Rajasthan) -313004.

Abstract

A novel, safe and sensitive method of spectrophotometric estimation in UV-region has been developed for the assay of Nizatidine in tablet formulation. The method was developed are based on the solubility of Nizatidine in 0.1 N HCl (pH 1.2). The drug showed maximum absorbance (λ_{max}) at 325 nm and linearity (Lambert Beer's Range) was found in concentration range of 5-40 µg/ml and the standard curve equation was found to be y = 0.025x + 0.005 and R^2 value 0.998. The results of analysis were validated statistically and by recovery studies. All the parameters of the analysis were chosen according to ICH [Q2(R1)] guidelines.

Key words: Nizatidine, Buffer pH 1.2., UV method, Validation.

***Corresponding Author: Rahul Kumar Garg,** Pacific College of Pharmacy, Udaipur (Rajasthan) -313004.