

Patil MG, Banerjee SK, Bonde CG, Chhabra GS. UV spectrophotometric method development for the determination of desvenlafaxine succinate in tablet formulation. *Bull. Pharm. Res.* 2011;1(1):40-3.

Abstract: Desvenlafaxine succinate is a synthetic form of the major active metabolite of venlafaxine. The aim of the present study was to develop a simple, accurate, precise and reproducible method for the estimation of desvenlafaxine succinate in tablet dosage form using UV spectrophotometry. Purified water was used as the solvent for desvenlafaxine succinate. The UV spectrum of desvenlafaxine in water showed λ_{\max} at 224 nm and Beer-Lambert law was obeyed in the concentration range of 5-40 g/ml. The result of analysis has been validated statistically. The recovery studies range from 99.78±1.05%, confirmed the accuracy of the proposed methods. The method was found to be precise with % relative standard deviation ±(0.244%) for interday precision and for intraday ±(0.243%). The proposed method is simple, precise, accurate and rapid for the determination of desvenlafaxine succinate in tablet dosage forms.

Key words: Desvenlafaxine succinate, UV spectrophotometry, Tablet dosage form, Beer-Lambert law.

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