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Der Pharmacia Lettre

Abstract

[A sensitive spectrophotometric determination of ezetimibe in tablets](#)

[using p-nitro aniline and ethylacetoacetate](#)

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Two rapid, simple, and sensitive spectrophotometric methods have been described for the determination of ezetimibe. The first method is based on the coupling of ezetimibe with diazotized p-nitroaniline in basic medium to form colored azo dye and showing absorption maximum at 480 nm (Method I). The linearity range was found to be 5.1 – 24.8 µg/mL. The second method is based upon the formation of coumarin derivative by the reaction between ezetimibe and ethylacetoacetate using sulfuric acid as catalyst with excitation wavelength of 380 nm (Method II). Beer's law is obeyed in the concentration range 20.0 – 80.0 µg ml⁻¹. The optimum experimental parameters for the reactions have been studied. The validity of the described procedures was assessed. Statistical analysis of the results has been carried out revealing high accuracy and good precision. The suggested procedures could be used for the determination of ezetimibe in dosage forms. The procedures were rapid, simple and suitable for quality control application.

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