

*International Conference on***PHARMACEUTICAL AND BIOMEDICAL ENGINEERING***October 16-17, 2017 Osaka, Japan***A new isocratic HPLC method for simultaneous determination of Sildenafil and Dapoxetine in pharmaceutical dosage forms****Serap Saglik Aslan and Sarioglu Cem**
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In this study, a new isocratic high performance liquid chromatographic method was developed and validated for simultaneous analysis of Sildenafil and Dapoxetine in tablet dosage form. Chromatographic separation was achieved with a mixture of Acetonitrile:Phosphate buffer pH 9.5 in the ratios 70:30 (v/v) as the mobile phase and a C18 column. The detection wavelength was adjusted to 228 nm. Retention times were found as 2.7 minutes for Sildenafil and 6.1 minutes for Dapoxetine. The linear concentration ranges were 0.25-0.75 mg/ml for Sildenafil and 0.15-0.45 mg/ml for Dapoxetine. The Limit of Detection (LOD) and the Limit of Quantitation (LOQ) values were 0.318 µg/ml and 1.060 µg/ml for Sildenafil, 0.316 µg/ml and 1.053 µg/ml for Dapoxetine, respectively. Recovery percentages were found to be 99.07-100.37% for Sildenafil and 99.43-100.11% for Dapoxetine. The method was applied to simultaneous analysis of Sildenafil and Dapoxetine in tablet dosage form. The proposed method is simple, rapid, selective and reproducible. It can be recommended to be used for simultaneous analysis of Sildenafil and Dapoxetine in pharmaceutical industry.

Biography

Serap Saglik Aslan has been working as a Professor in the Department of Analytical Chemistry, Faculty of Pharmacy, Istanbul University since 2010.

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