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Validated determination of escitalopram by capillary zone electrophoresis in pharmaceutical preparations

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Escitalopram is an oral serotonin re-uptake inhibitor. In this study, a simple, fast and sensitive method was developed for the determination of escitalopram by capillary electrophoresis in pharmaceutical preparations. Metoprolol was used as IS. Separation was achieved by a fused silica capillary with 40 cm effective (48.5 cm total, 75 µm i.d.) length. The run buffer was composed of 15 mM phosphate buffer (pH 2.5). The applied potential was 25 kV and the samples were injected at 50 mbar pressure for 10 s. The migration times under these optimum conditions were 6.51±0.07 and 6.73±0.08 minutes for escitalopram and IS, respectively. The method was validated for linearity, precision, accuracy, specificity and sensitivity. The LOQ was calculated as 3.57×10-7 M for escitalopram. The method was successfully applied to tablets, film coated tablets and oral drops of escitalopram.

Biography

Arın Gül Dal has completed her PhD in 2009 from Anadolu University, Institute of Health Sciences. She is now working at Anadolu University, Faculty of Pharmacy as an Assistant Professor. She has papers on separation methods like capillary electrophoresis and liquid chromatography in international periodicals and meetings.

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