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## **Simultaneous capillary zone electrophoretic determination of hydrochlorothiazide and certain angiotensin-II receptor antagonists in pharmaceutical preparations**

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Angiotensin-II receptor antagonists along with diuretics are mainly used in the treatment of hypertension. In this study, a capillary zone electrophoretic method was developed and validated for the determination of hydrochlorothiazide, irbesartan, telmisartan and valsartan with DAD. A 40 cm effective length (48.5 cm total, 50  $\mu$ m i.d.) fused silica capillary was used to separate the compounds. The run buffer was 15 mM borate buffer containing 10% methanol (pH 9.0). The samples were injected for 10 s under 50 mbar pressure and the applied potential was 25 kV. Under these optimum conditions, total run time was less than 7 minutes. The method was validated for linearity, precision, accuracy, specificity, stability and sensitivity. The application of the method was successfully demonstrated for individual and combined tablets of the drugs.

### **Biography**

Sema Koyutürk graduated from Adnan Menderes University, Faculty of Sciences, Department of Chemistry in 2010. She has got her MSc degree on Analytical Chemistry in 2013. She is now a PhD student at Anadolu University, Institute of Health Sciences.

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