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Ali Özcan, Mustafa Gürbüz, Ayça Atilir Özcan



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**Preparation of a disposable and low-cost electrochemical sensor  
for protham detection based on over-oxidized poly(thiophene)  
modified pencil graphite electrode**

Ali ÖZCAN\*, Mustafa GÜRBÜZ<sup>1</sup>, Ayça ATILIR ÖZCAN<sup>1</sup>

*Anadolu University, Faculty of Science, Department of Chemistry, 26470*

*Eskisehir, Turkey*

\*Corresponding Author: *Tel: +905333807975, Fax: +902223204910*

*aozcan3@anadolu.edu.tr*

*mustafagurbuz@anadolu.edu.tr*

*aatilir@anadolu.edu.tr*

**Abstract**

In this study, an electrochemical sensor was developed for the determination of protham (PRO) in potato, human urine and river water samples based on the over-oxidized poly(thiophene) modified pencil graphite [PG/p(Thp)-Ox] electrode. Adsorptive stripping differential pulse voltammetry was used as a

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<sup>1</sup> *Tel: +905333807975, Fax: +902223204910*

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