

P10. SELECTIVE AND SENSITIVE DETERMINATION OF TANNIC ACID USING A 1-BENZOYL-3-(PYRROLIDINE) THIOUREAFILM MODIFIED GLASSY CARBON ELECTRODE

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In this study the selective determination of tannic acid (TA) was performed using a glassy carbon (GC) electrode modified with 1-Benzoyl-3-(pyrrolidine) thiourea (PrTu). PrTu was deposited on the GC electrode in nonaqueous media by cyclic voltammetry. PrTu-GC electrode demonstrated an electrocatalytical effect on the oxidation of TA using differential pulse voltammetry (DPV) method in 0.1 M Britton Robinson (BR) buffer solution of pH 2. Under optimum conditions linear calibration graphs were obtained over the TA concentration range 2.0×10^{-6} to 4.2×10^{-5} M. The detection limit (LOD) was found as 0.6 μ M. The proposed electrode was applied to the determination of TA in tea sample with satisfactory results.

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