

Supplementary Materials

Carmoisine A Catalytic Film on The Surface of a One-Use Electrode for the Detection of Hazardous Culinary Ingredients Tartrazine in the Existence of Vanillin

Puneeth, and B.E. Kumara Swamy*

Dept of PG Studies and Research in Industrial Chemistry, Kuvempu University, Jnana Sahyadri Shankaraghatta (577451) Shivamogga (D) Karnataka(S), India

*Corresponding Author, Tel.: +91-9900513796

E-Mail: kumaraswamy21@yahoo.com

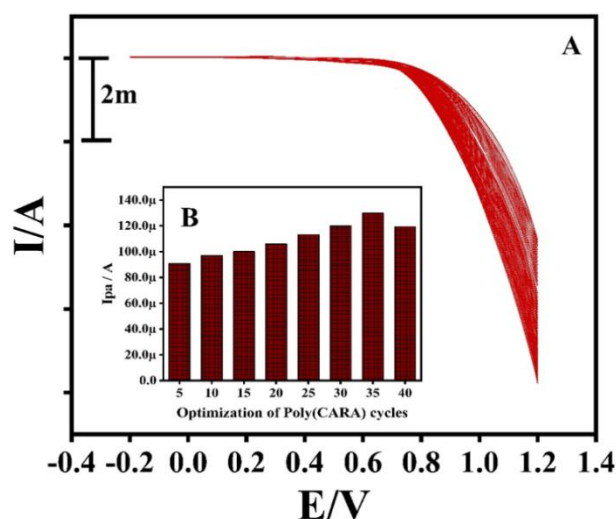


Figure S1. (A) CV cycles are used to prepare polymer film on the surface of PGE; (B) Optimized cycle for the fabrication of electrode

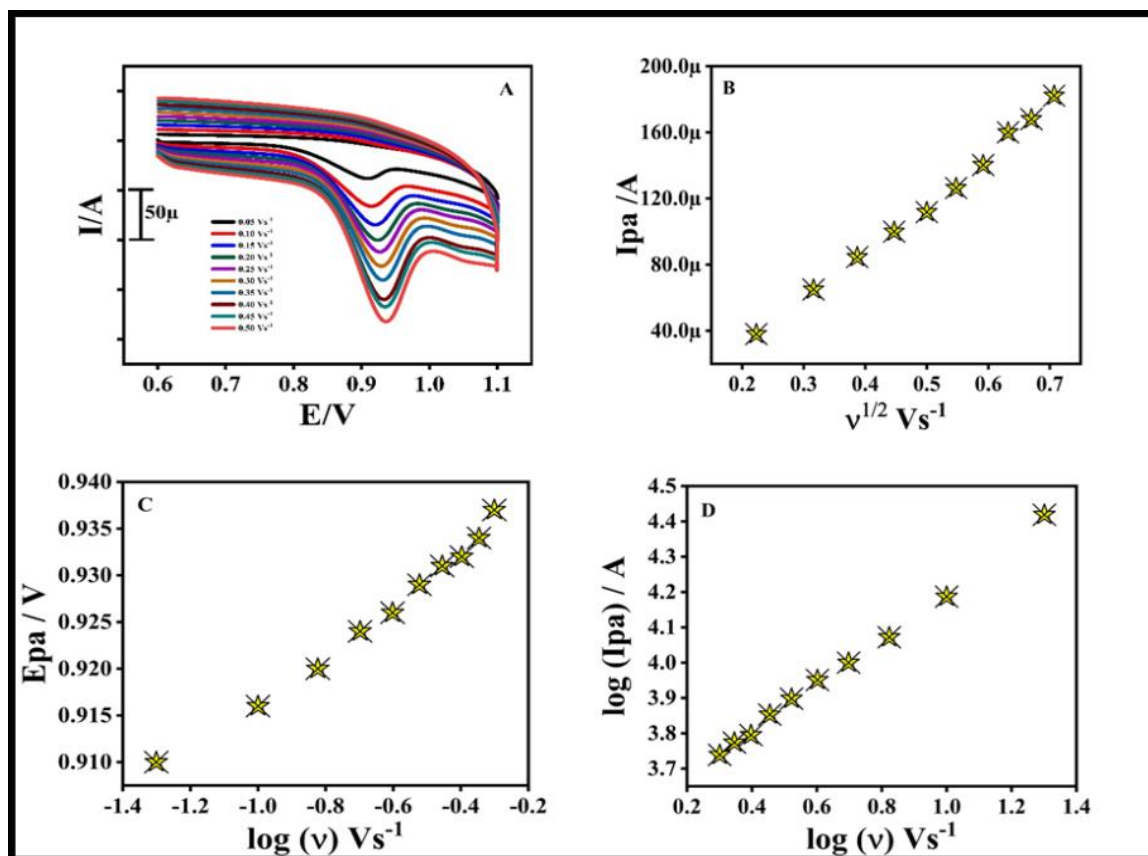


Figure S2. (A) CVs for the study of different scan rates at Poly(CARA)-MPGE for 10 μM TZ using 0.2 M PBS of pH 7.0; (B) Graph I_{pa} versus $v^{1/2}$; (C) E_{pa} versus $\log(v)$; (D) $\log(I_{pa})$ versus $\log(v)$

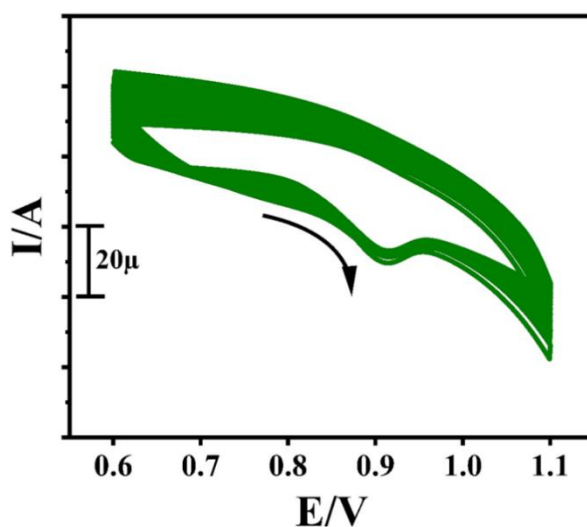


Figure S3. CVs for the solidly study of 10 μM TZ at Poly(CARA)-MPGE using 0.2 PBS of 7.0 pH over 25 cycles

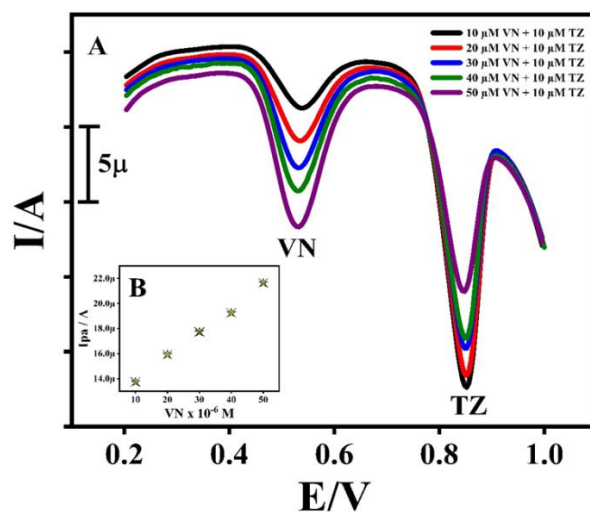


Figure S4. (A) DPVs for the selectivity study for TZ (10 μM) and VN (10-50 μM) at Poly(CARA)-MPGE using 0.2 M PBS 7.0 pH; (B) Graph of I_{pa} versus concentration of TZ