

Supplementary Materials: Electrochemical Behaviour of Tocopherols: Possibilities of Their Simultaneous Voltammetric Detection

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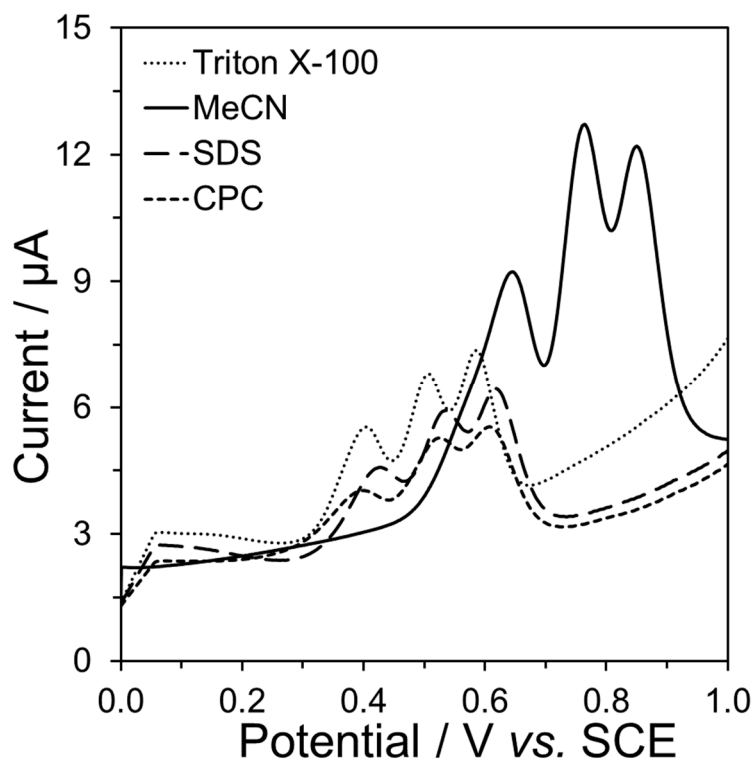


Figure S1. Voltammograms of 50 $\mu\text{mol L}^{-1}$ α -TOH, γ -TOH and δ -TOH at GCE in pure MeCN containing 0.1 mol L^{-1} LiClO_4 and 0.001 mol L^{-1} CPC, SDS or Triton X-100 at $E_{\text{step}} = 1 \text{ mV}$, $E_{\text{ampl}} = 25 \text{ mV}$ and $f = 20 \text{ Hz}$.

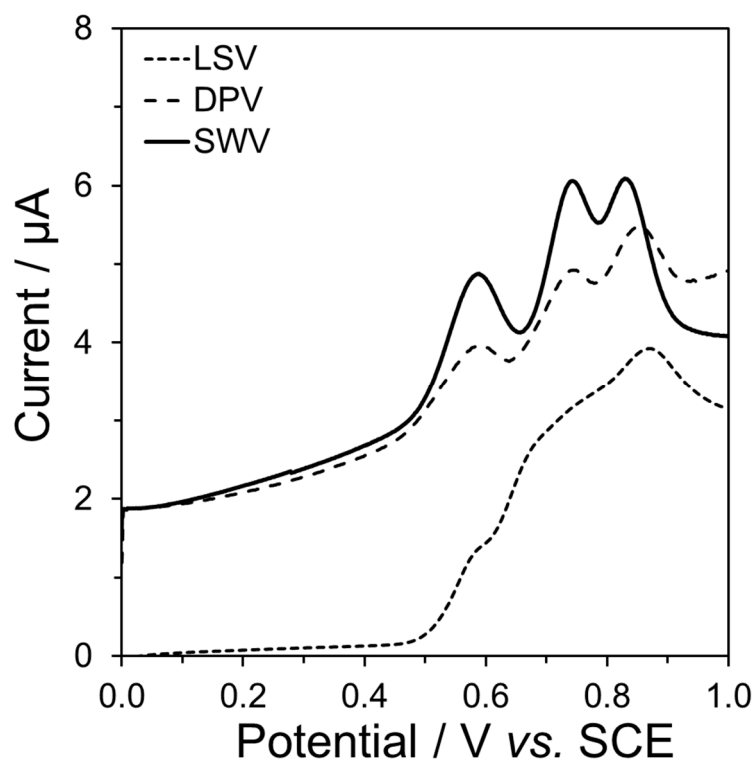


Figure S2. Comparison of voltammetric techniques in simultaneous determination of 50 $\mu\text{mol L}^{-1}$ α -TOH, γ -TOH and δ -TOH for LSV and 10 $\mu\text{mol L}^{-1}$ these tocopherols for DPV and SWV. All measurements were carried out at GCE in pure MeCN containing 0.1 mol L^{-1} LiClO_4 . Conditions of LSV: $E_{\text{step}} = 2.5 \text{ mV}$ and $\nu = 25 \text{ mV s}^{-1}$; DPV: $E_{\text{step}} = 2.5 \text{ mV}$, $E_{\text{ampl}} = 50 \text{ mV}$ and $\nu = 25 \text{ mV s}^{-1}$; and SWV: $E_{\text{step}} = 1 \text{ mV}$, $E_{\text{ampl}} = 25 \text{ mV}$ and $f = 25 \text{ Hz}$.

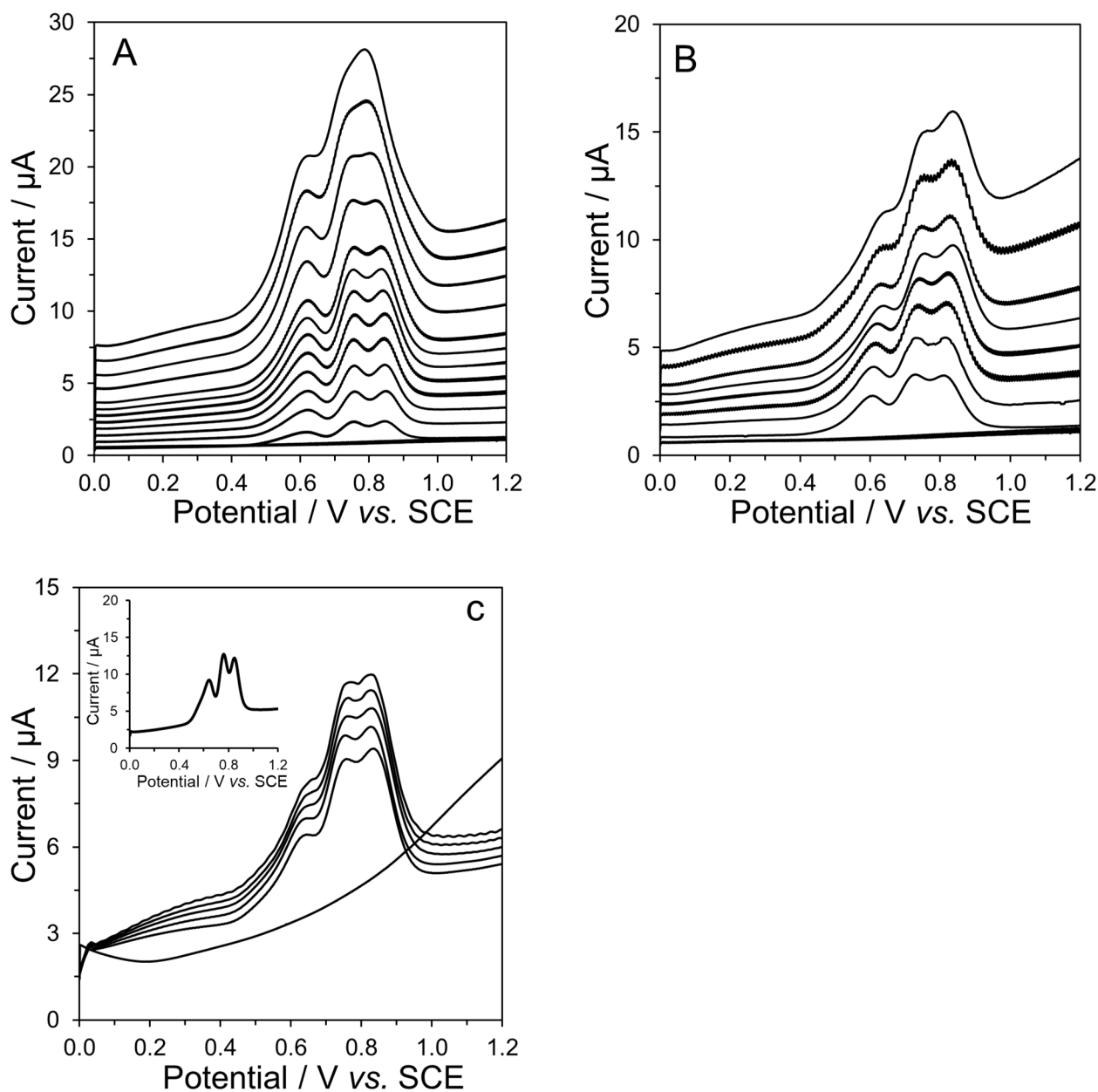


Figure S3. Voltammograms of 50 $\mu\text{mol L}^{-1}$ α -TOH, γ -TOH and δ -TOH at GCE in pure MeCN containing 0.1 mol L^{-1} LiClO_4 at (A) $E_{\text{ampl}} = 5 - 80 \text{ mV}$, $E_{\text{step}} = 2.5 \text{ mV}$ and $f = 20 \text{ Hz}$, (B) $f = 5 - 50 \text{ Hz}$, $E_{\text{step}} = 2.5 \text{ mV}$ and $E_{\text{ampl}} = 25 \text{ mV}$ and (C) $E_{\text{step}} = 1 - 15 \text{ mV}$, $E_{\text{ampl}} = 25 \text{ mV}$ and $f = 20 \text{ Hz}$.