

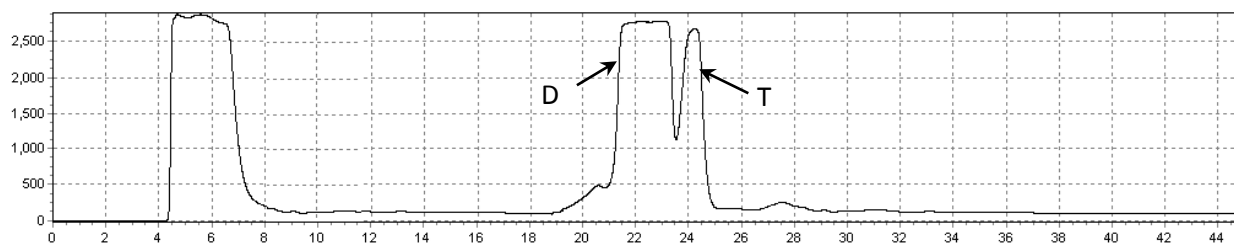
α,β -Dehydro-Dopa: a hidden participant in mussel adhesion

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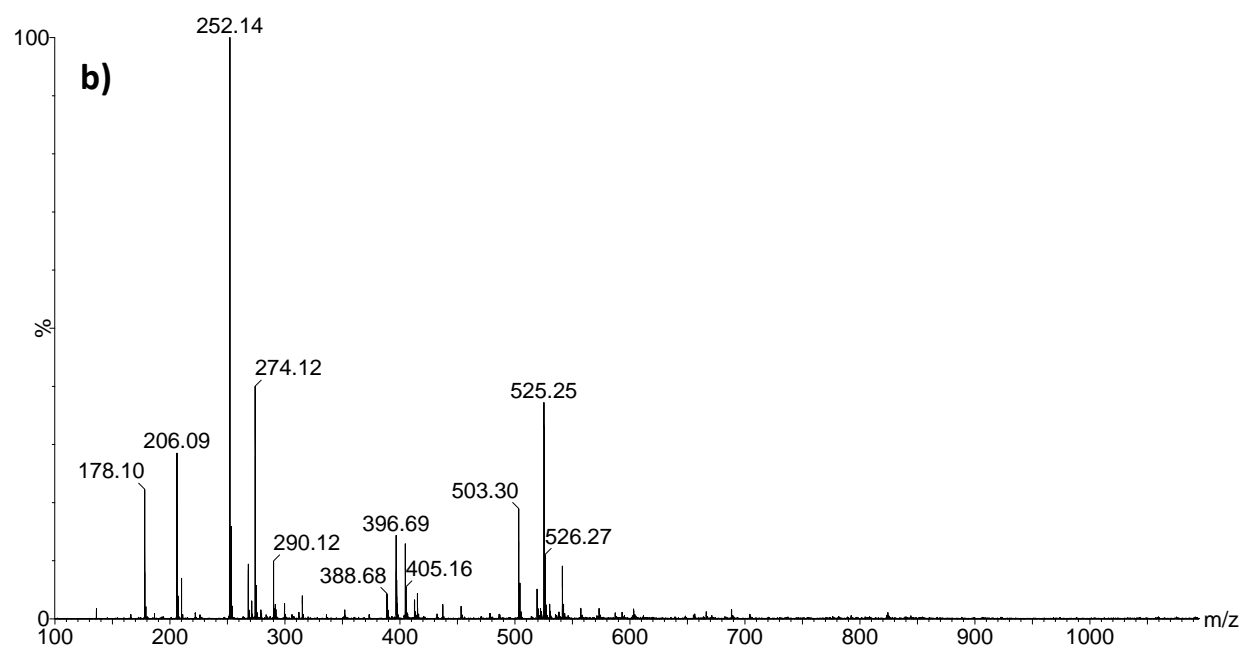
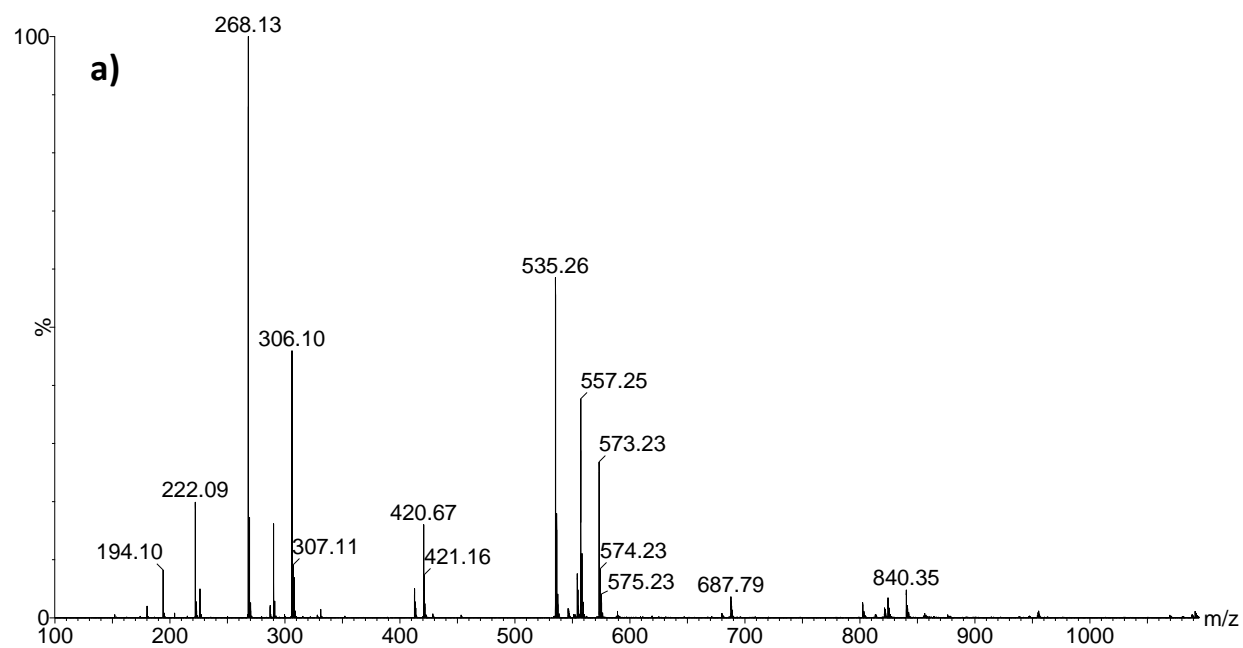
¹Marine Science Institute, University of California, Santa Barbara 93106

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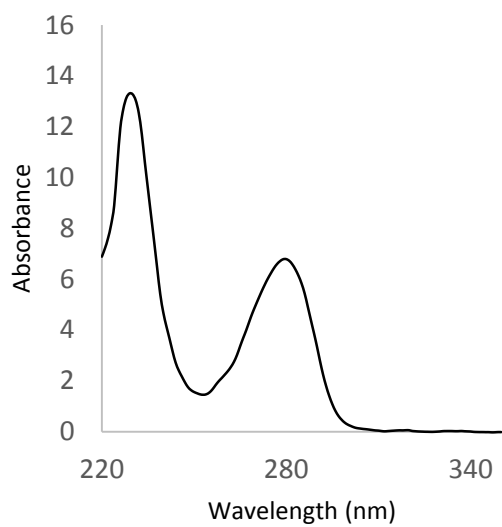
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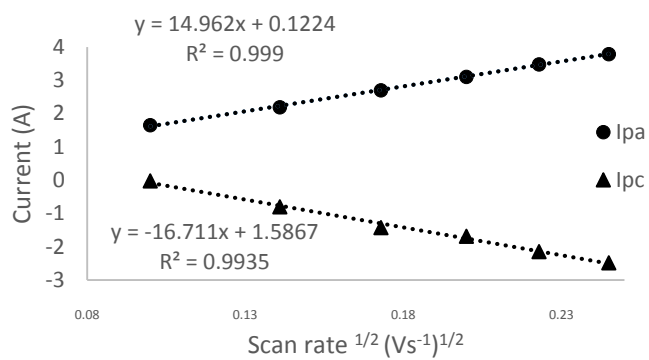
S₁) HPLC results of purified N-acetyl dopa ethyl ester (**D**)



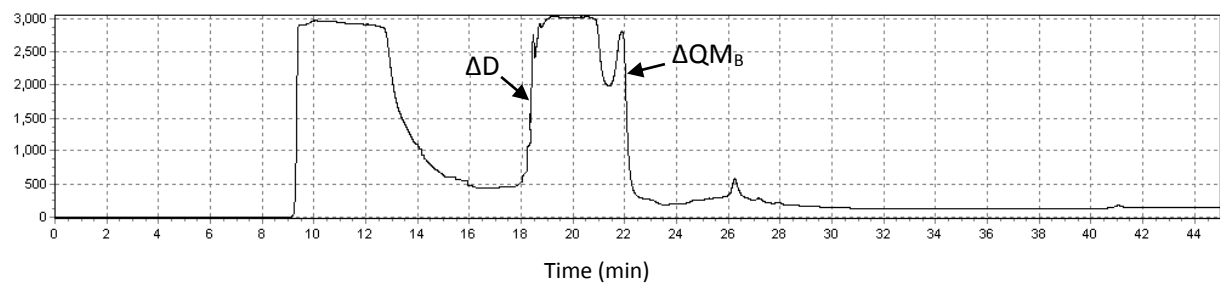
S₂) Mass spectra of a) **D** b) **T**



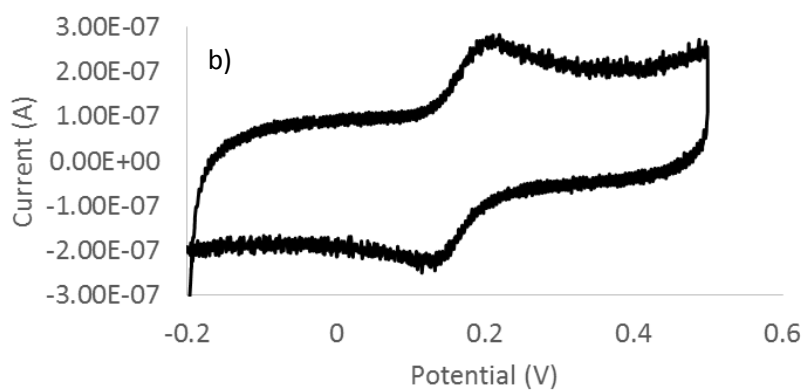
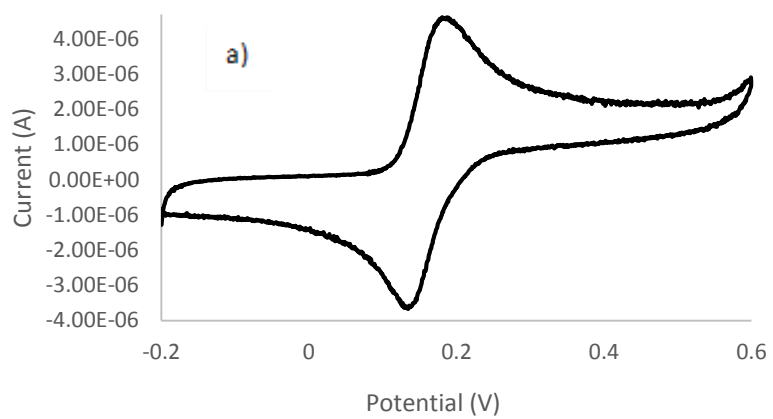
S₃) The UV-Vis spectrum of synthesized **D**



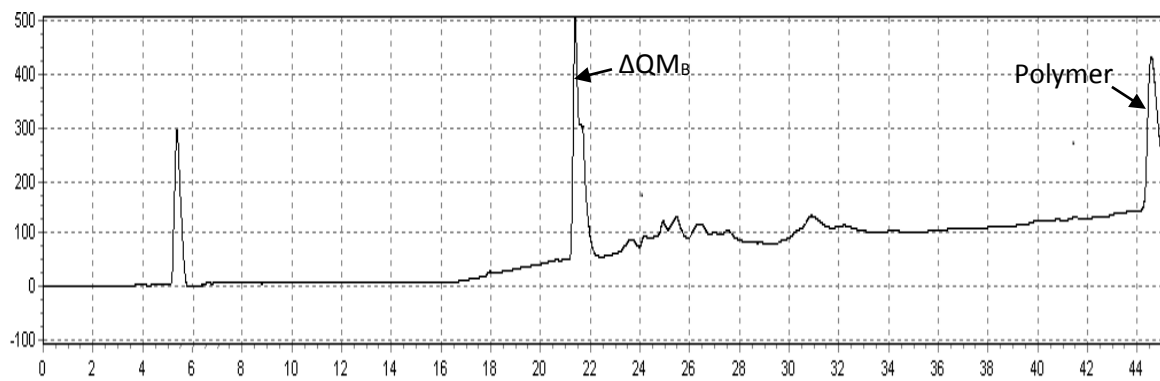
S₄) plot of current versus square root of scan rate for 5×10^{-5} M **D** in 0.1 M PBS at pH 7 using CPE electrode



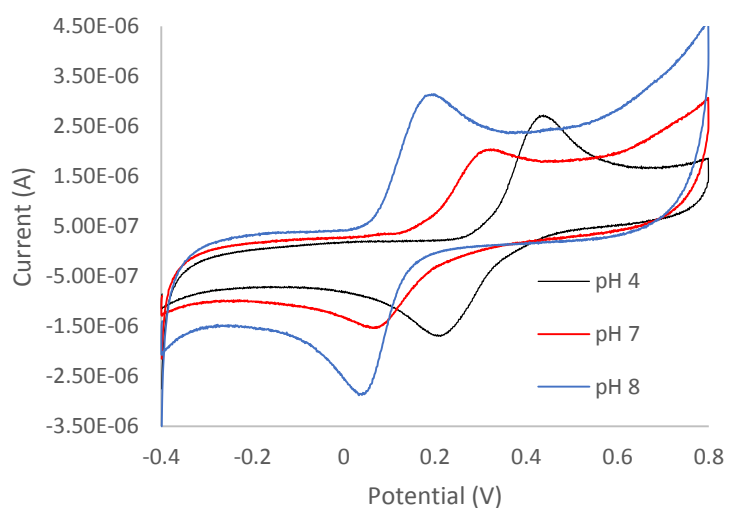
S₅) HPLC results of purified N-acetyl dehydrodopa ethyl ester (ΔD)



S₆) CV of a) **AD** b) caffeic acid in 0.1 M PBS at pH 7 using CPE electrode, Scan rate 0.05 Vs⁻¹

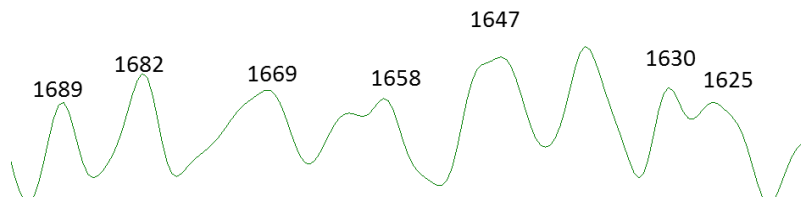


S₇) HPLC results of purified N-acetyl dehydrodopa quinone methide ethyl ester (ΔQM_B) and the polymer



S₈) CV of CPE electrode in 5×10^{-5} M **D** in 0.1 M at different pH, Scan rate 0.05 Vs^{-1}

a)



b)



S₉) FTIR second derivatives of 1 mg/ml Mfp3 slow in deuterated buffer a) at pH 7, b) at pH 4