

Supporting Information

Effect of Surfactants and Halide Ions on the Adsorption and Oxidation of Homocysteine at the Gold Electrode

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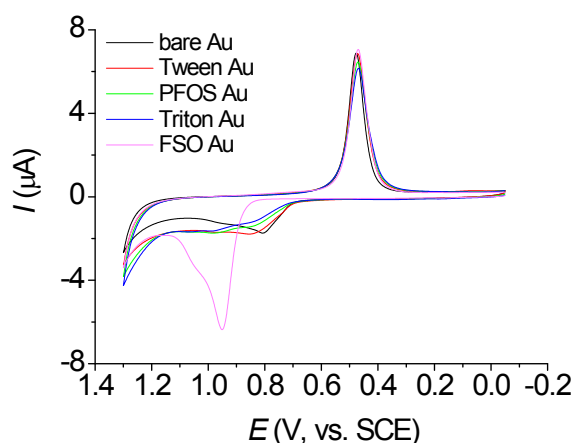


Figure S1. CVs of a bare Au, Tween-Au, PFOS-Au, Triton-Au and FSO-Au electrodes in 0.15 M PBS (pH 7.0). Scan rate, 10 mV/s.

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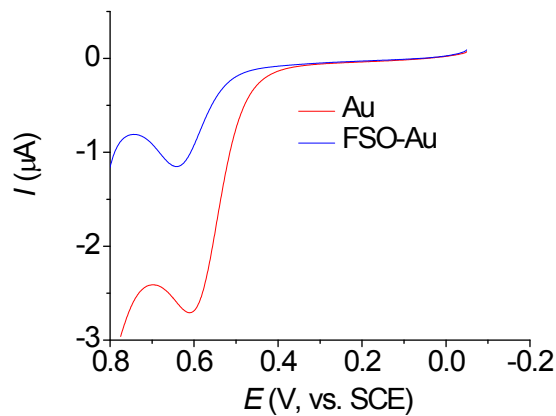


Figure S2. LSVs of a bare Au electrode and a FSO-Au electrode following dipping in 1 mM Cys solution for 5 min. Scan rate, 10 mV/s.

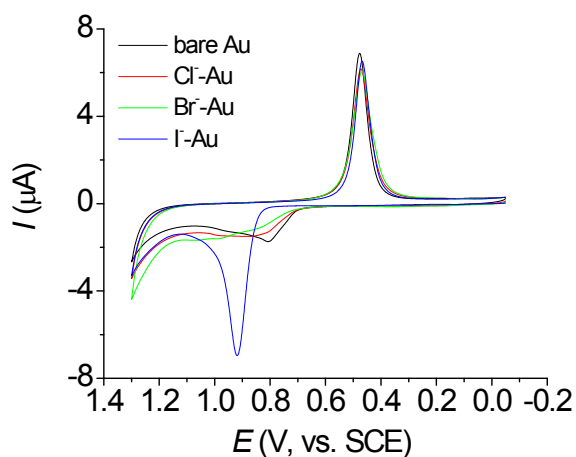


Figure S3. CVs of a bare Au, Cl⁻-Au, Br⁻-Au and I⁻-Au electrodes in 0.15 M PBS (pH 7.0). Scan rate, 10 mV/s.

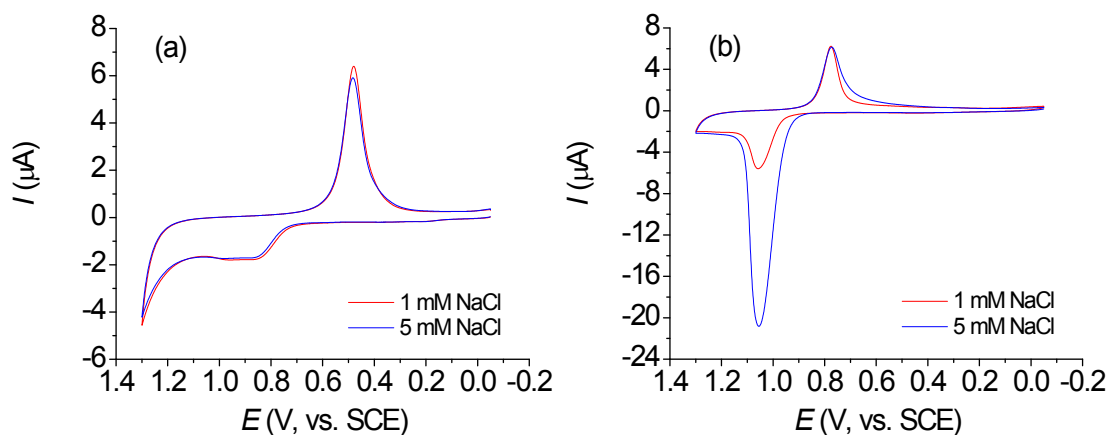


Figure S4. CVs of Au electrodes in 0.15 M PBS at pH 7.0 (a) or pH 3.0 (b) containing 1 mM NaCl and 5 mM NaCl, Scan rate, 10 mV/s.

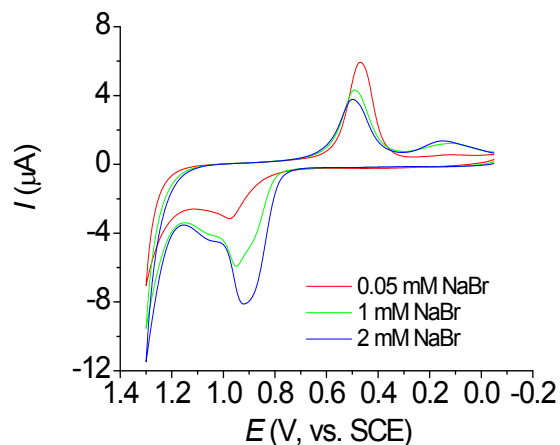


Figure S5. CVs of Au electrodes in 0.15 M PBS at pH 7.0 containing 0.05 mM, 1 mM, and 2 mM NaBr. Scan rate, 10 mV/s.

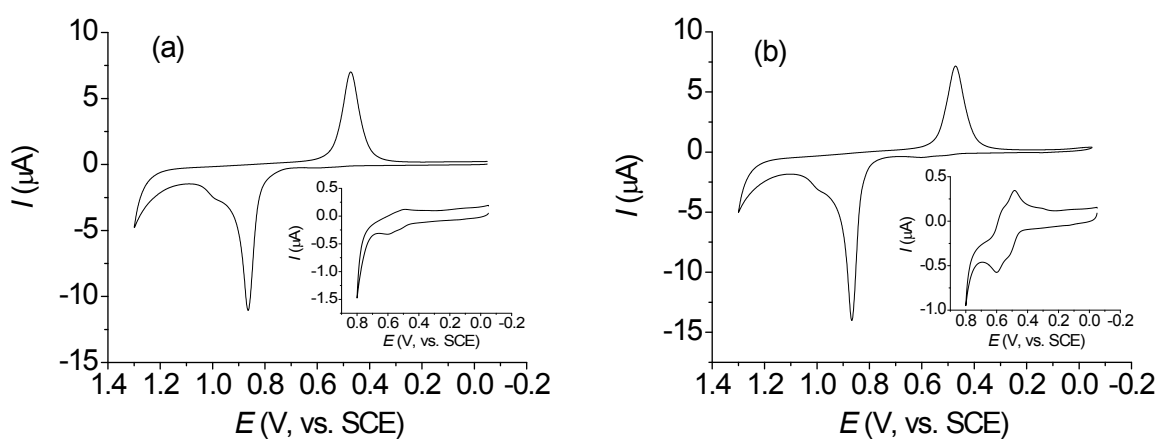


Figure S6. CVs of Au electrodes in 0.15 M PBS at pH 7.0 containing 0.05 mM (a) or 0.1 mM (b) NaI. Scan rate, 10 mV/s. Inset, CVs obtained in a narrow potential range.

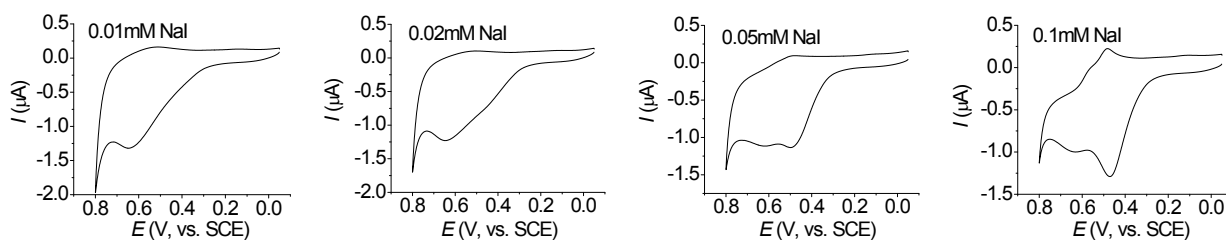


Figure S7. CVs of a bare Au electrode following dipping in 1 mM Hcy for 5 min. Solution, 0.15 M PBS at pH 7.0 containing various amounts of NaI. Scan rate, 10 mV/s.