**Supplementary Material**

**Normal or parallel configuration in spectroelectrochemistry? Bidimensional spectroelectroanalysis in presence of an antioxidant compound**

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**S1. Comparison of cyclic voltammetry using a silver pseudo-reference electrode and a reversible hydrogen electrode**

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| **Figure S1.** Cyclic voltammetry of 2·10-3 M EP in 0.1 M HClO4 between -0.20 V and +0.90 V at 0.01 V s-1 using a silver pseudo-reference electrode, orange line, and between +0.30 V and +1.10 V at 0.01 V s-1 using a reversible hydrogen electrode (RHE), blue line. |

**S2. Evolution of the thickness of the diffusion layer with potential calculated from equation 1.**

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| **Figure S1.** Evolution of the thickness of the diffusion layer with potential calculated from BSEC experiment performing a cyclic voltammetry of 2·10-3 M EP in 0.1 M HClO4 between -0.20 V and +0.90 V at 0.01 V s-1 |

**S3. Comparison of Chronoabsorptograms at 385 nm of EP in a thin layer cell with and without AA.**

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| **Figure S3.** Comparison between the corresponding CAbs at 385 nm in a thin layer cell for the BSEC experiments of a 5·10-3 M EP solution (blue line) and a mixture of 5·10-3 M AA and 5·10-3 M EP (orange line), all in 0.1 M HClO4, applying +0.90 V during 125 s. |