Supplementary Material

Competitive adsorption of ofloxacin enantiomers to goethite: experiments and modelling

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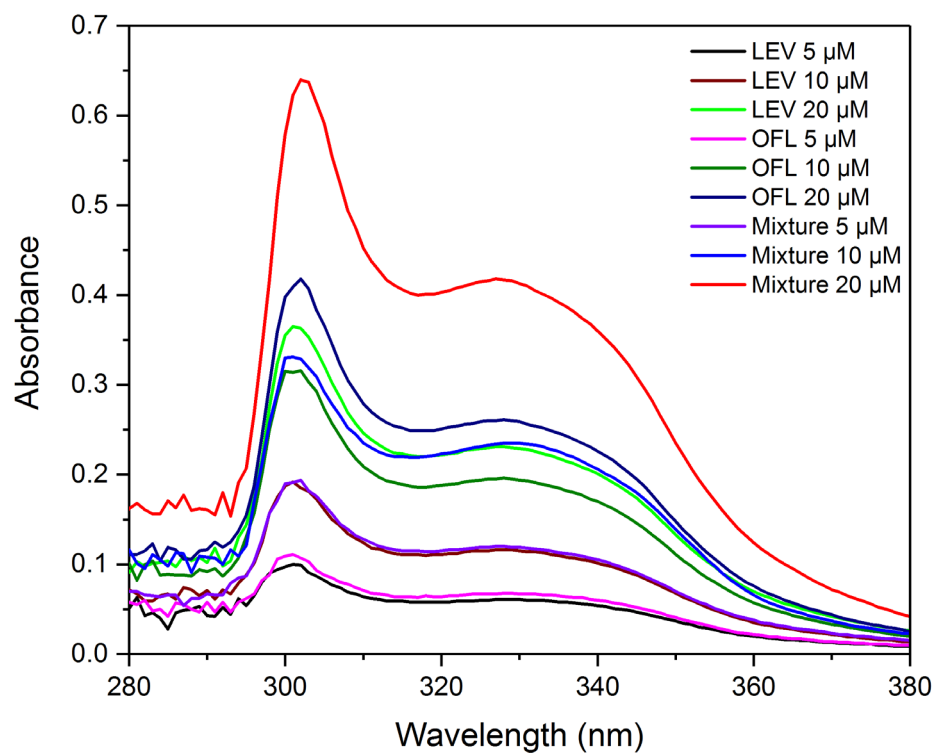
Figure S1. The UV-Vis spectra of aqueous OFL, LEV, and OFL-LEV mixtures. NaCl (0.01 M, pH 5) was the background solution.
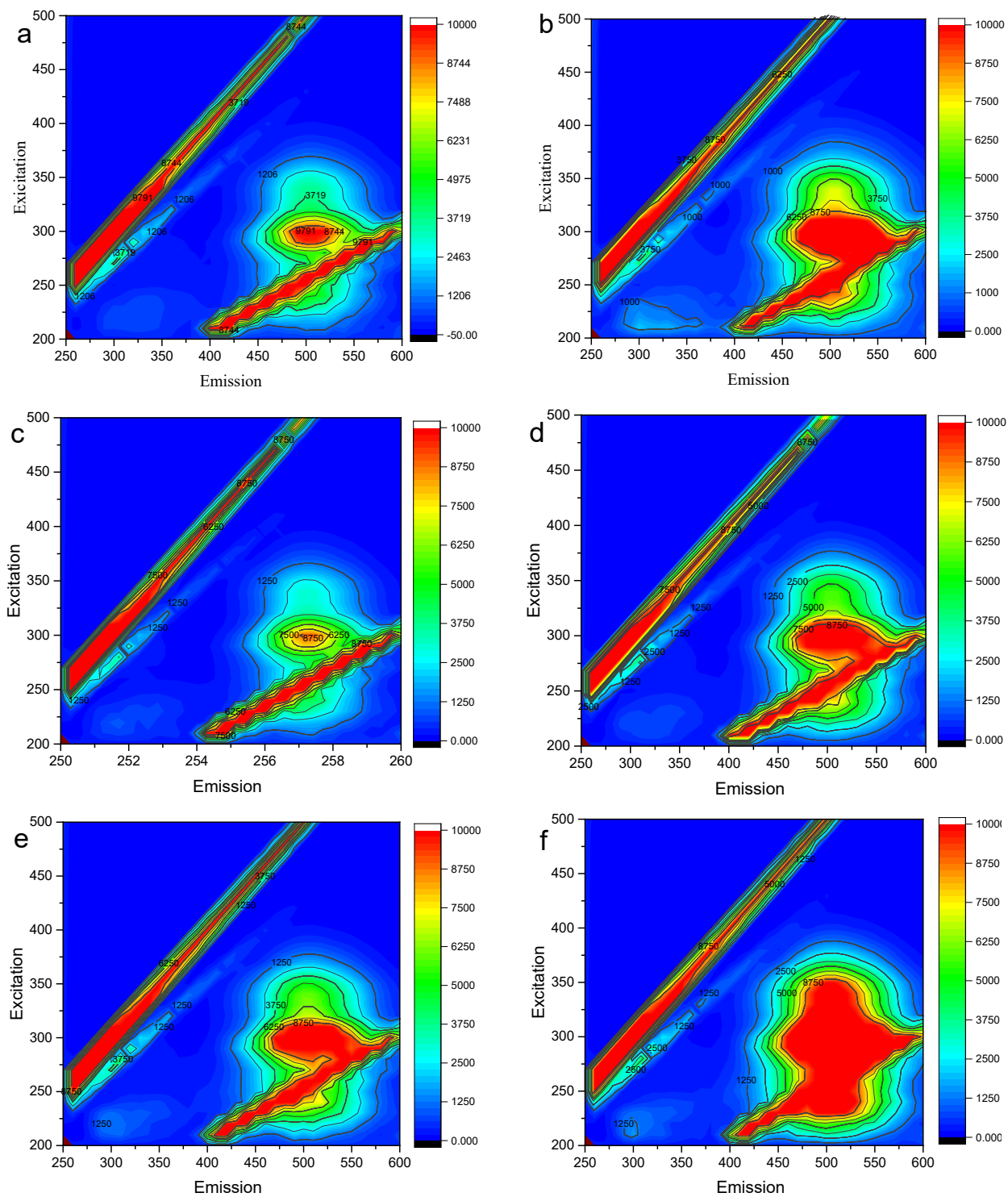
Figure S2. The EEM spectra contour maps of 0.1, 0.2 μM LEV (a, b), 0.1, 0.2 μM OFL (c, d), and 0.2, 0.4 μM OFL-LEV mixtures (e, f). NaCl (0.01 M, pH 5) was the background solution.
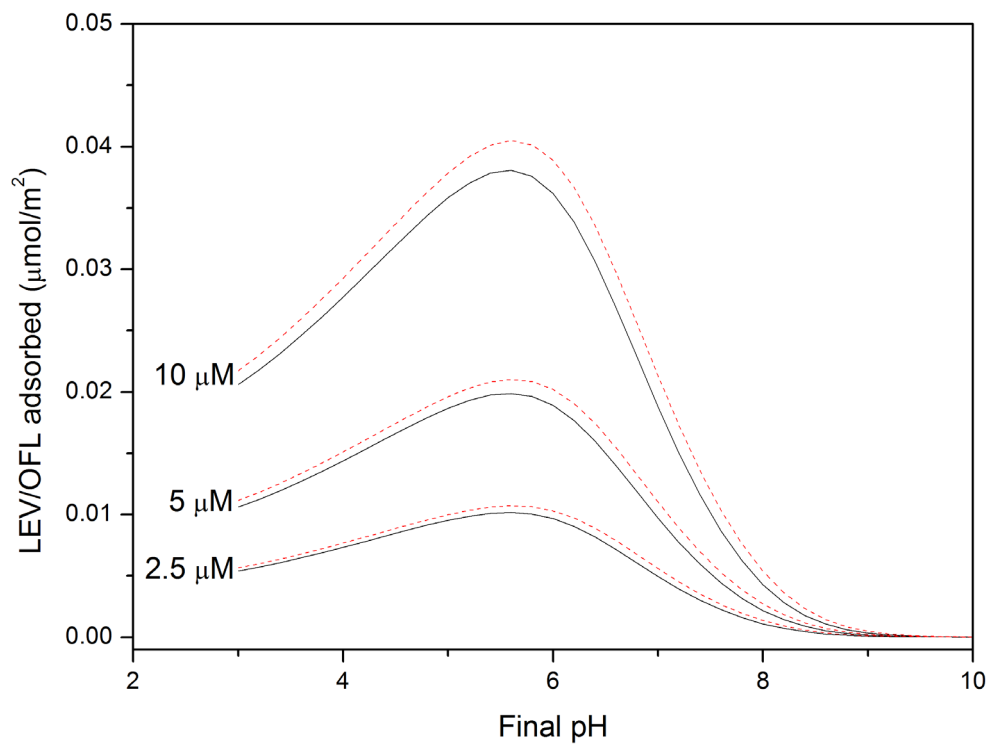
Figure S3. The calculated amounts of LEV (solid lines) and OFL (dash lines) adsorbed to goethite in single systems. The initial concentrations of LEV/OFL were 2.5, 5, and 10 µM. Model calculations were performed using the parameters listed in Table 1.
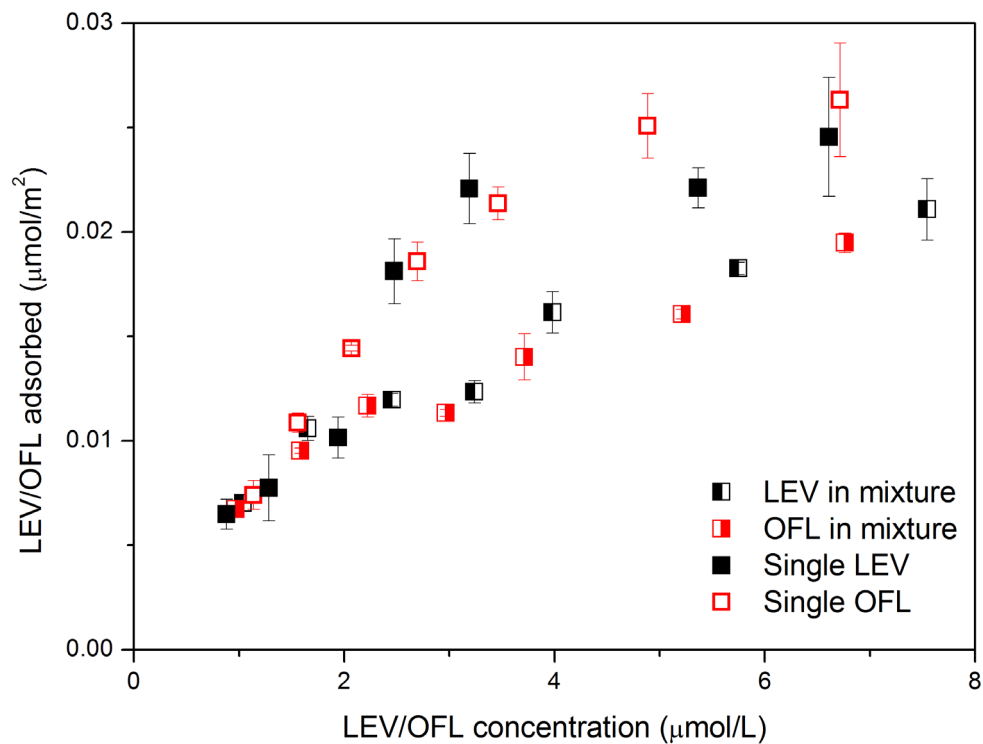
Figure S4. The adsorption isotherm of LEV and OFL in single or binary systems under different pH conditions at 0.01 M NaCl. Error bars (±1 standard deviation, n=3) are shown in figures.
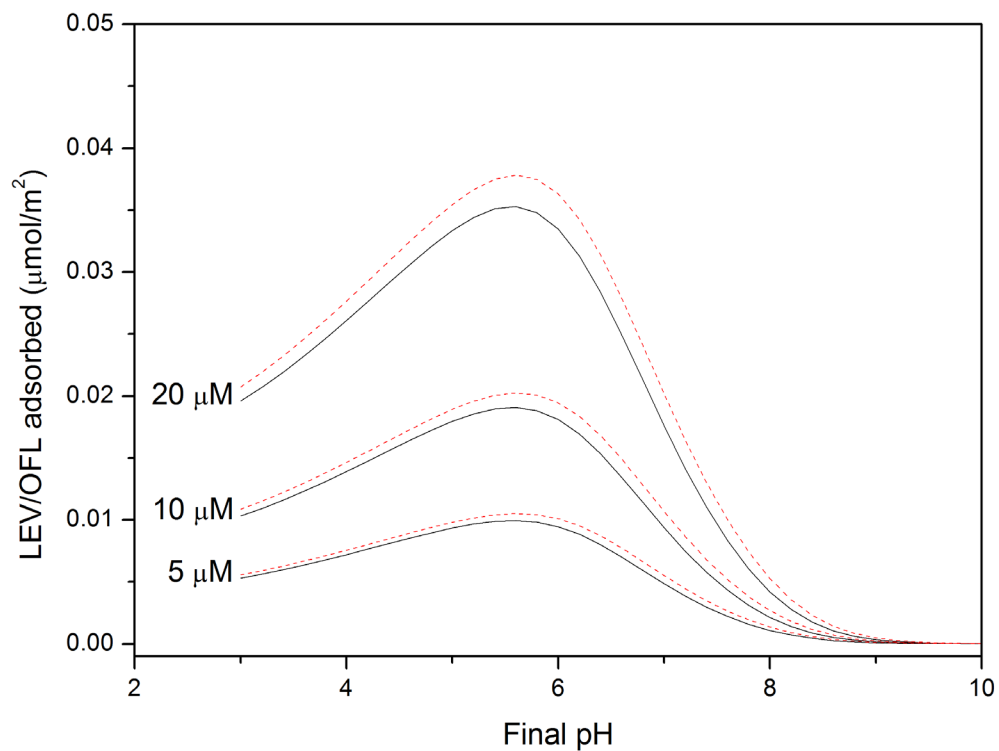
Figure S5. The calculated amounts of LEV (solid lines) and OFL (dash lines) adsorbed to goethite in binary systems. The initial concentrations of LEV/OFL in the mixtures were 5, 10, and 20 μM. Model calculations were performed using the parameters listed in Table 1.