

Supplementary Materials:

HPLC procedure

The concentration and absorptivity coefficients obtained were verified using high-efficiency liquid chromatography on the YL Instruments 9300 HPLC System coupled with a diode UV- VIS, with a Zorbax SB-C18 column. The temperature of the column was set at 25°C. The mobile phases were A) Water/ACN 66.6:33.3 V/V acidified with ortho-phosphoric acid 85% to pH 2.7 and B) pure ANC. The elution gradient was programmed as starting from 20 % B for 3 min to 65% B by 7 min, this concentration was maintained until getting 10 min and then it increased to 100% B by 2 min. It returned to initial conditions until getting 15 min. The posting time was set at 3 min to allow the column equilibrium.

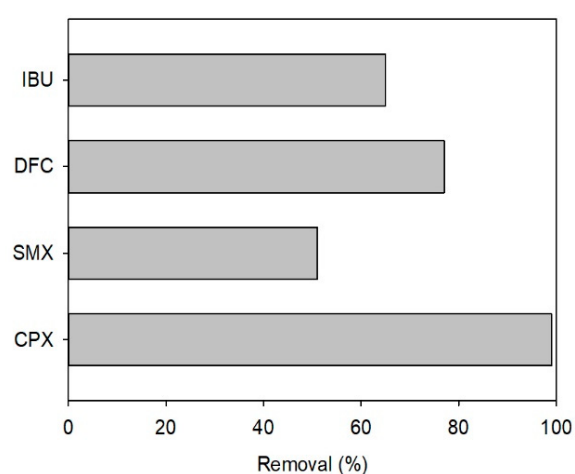


Figure S1. Percentages of removal of IBU, DCF, SMX, and CPX, with 20 mg/L of SB.

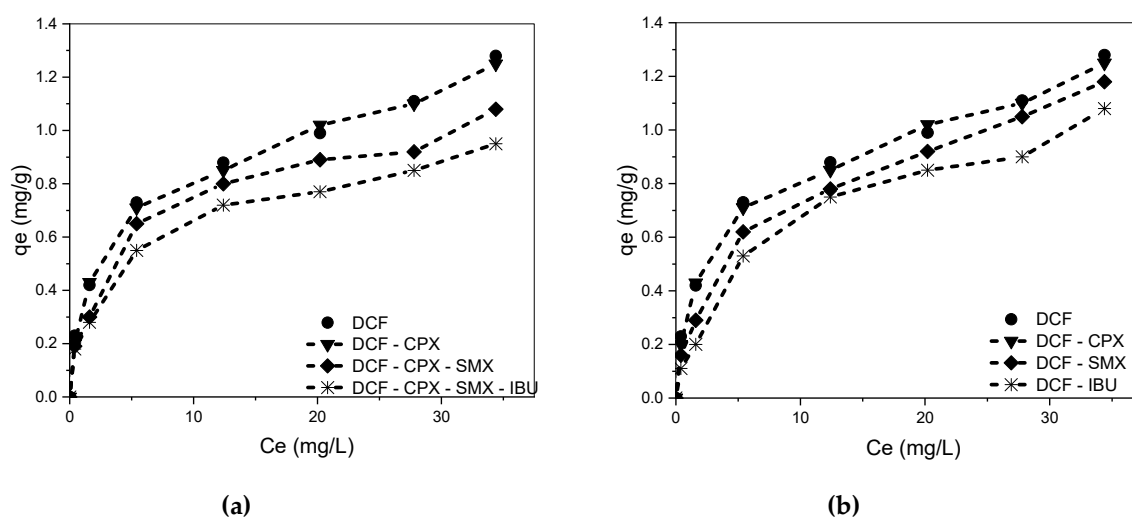


Figure S2. a) DCF experimental isotherms in multi-component mixtures and b) DCF experimental isotherms in bi-component mixtures.

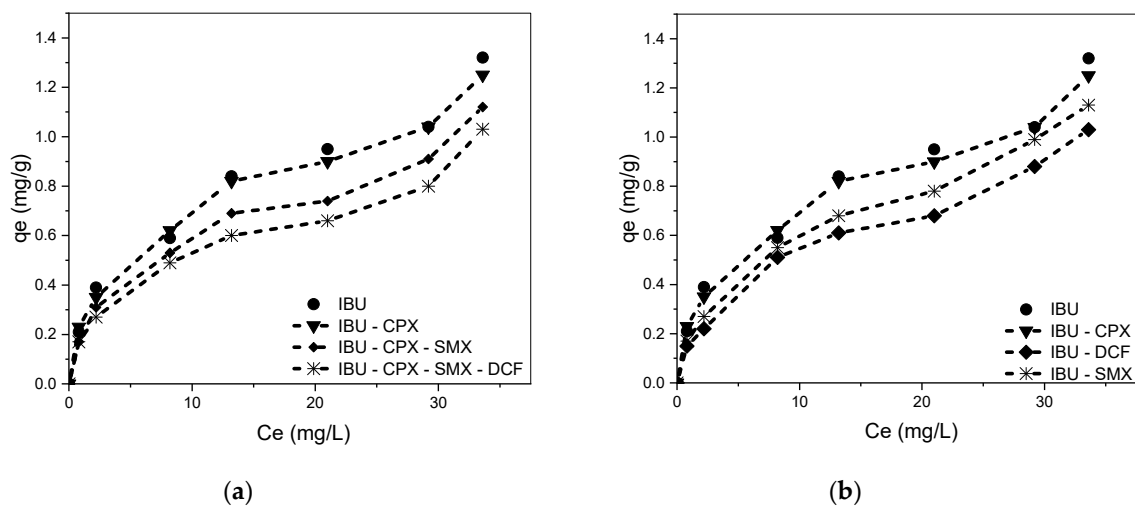


Figure S3. a) IBU experimental isotherms in multi-component mixtures and b) IBU experimental isotherms in bi-component mixtures.

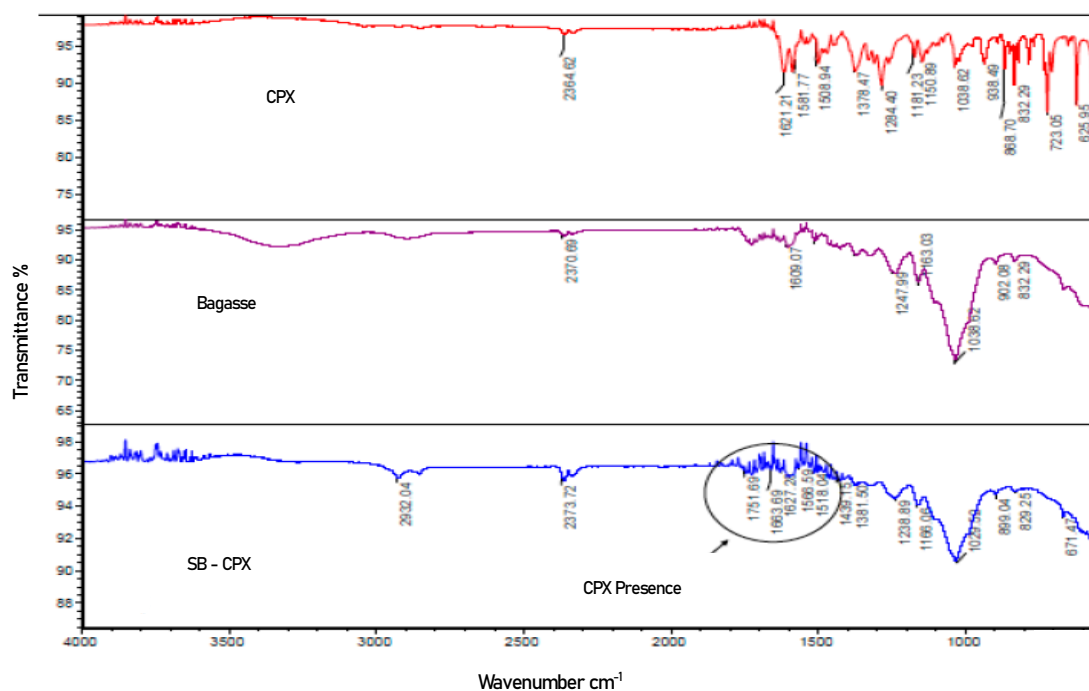


Figure S4. FTIR spectrum.