

Supporting information
for
Effect of Chlorination on the Estrogenic/Anti-Estrogenic Activities of
Biologically Treated Wastewater

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TABLE S1. EEM peaks for sample C and its fractions

Peak	SC		PC		MPC		NPC		Substance
	Ex/Em (nm/nm)	FI (AU)	Ex/Em (nm/nm)	FI (AU)	Ex/Em (nm/nm)	FI (AU)	Ex/Em (nm/nm)	FI (AU)	
Flu1	225/300	3392	225/300	2283	220/289	928	220/295	949	tyrosine-like, aromatic protein
Flu2	230/345	4664	230/345	4423	225/358	526	ND	ND	tryptophan-like, aromatic protein
Flu3	275/305	2419	275/305	2120	275/305	1197	275/305	1185	soluble microbial byproduct-like
Flu4	280/343	2367	280/345	2255	ND	ND	ND	ND	soluble microbial byproduct-like
Flu5	240/411	1811	250/419	1732	ND	ND	ND	ND	humic/fulvic acid-like

SC, sample C; PC, polar compounds; MPC, mid-polar compounds; NPC, non-polar compounds.

FI, the fluorescence spectroscopy intensity of the sample and its fractions at $\text{Ex}_{\text{max}}/\text{Em}_{\text{max}}$. ND, not detected.

FIGURE S1. Dose-response curves of anti-estrogenic activity in sample C before and after chlorination (10 mg-Cl₂/L). Error bars represent the standard deviation based on triplicate analyses.

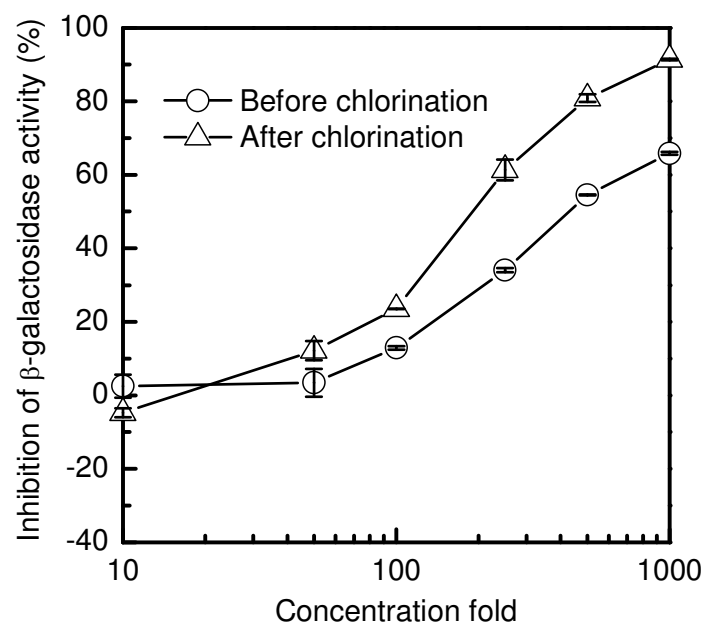


FIGURE S2. Dose-response curves of anti-estrogenic activity in tryptophan (20 mg/L) solution before and after chlorination (30 mg-Cl₂/L). Error bars represent the standard deviation based on triplicate analyses.

