upplementary Material

Comprehensive study on endocrine disruptor removal using different microalgae species

Noelia García [1], Rosalía Rodríguez [1], Gemma Vicente [1,2], Juan J. Espada [1] and Luis Fernando Bautista [2,3,*]

[1] Department of Chemical, Energy and Mechanical Technology, ESCET, Universidad Rey Juan Carlos. 28933, Móstoles, Madrid, Spain. noelia.garcia@urjc.es, rosalia.rodriguez@urjc.es, gemma.vicente@urjc.es
[2] Instituto de Tecnologías para la Sostenibilidad, Universidad Rey Juan Carlos. 28933, Móstoles, Madrid, Spain.
[3] Department of Chemical and Environmental Technology, ESCET, Universidad Rey Juan Carlos. 28933, Móstoles, Madrid, Spain. fernando.bautista@urjc.es
* Correspondence: fernando.bautista@urjc.es; Tel.: +34 914888501

This file contains 3 pages, including Table S1 and Fig. S1 and S2

Table S1. Analytical parameters EDCs using HPLC-DAD for the suspended fraction. This includes LOD and LOQ values, calibration curves (where a is the slope and b is the intercept), R^2 values, and the working concentration ranges.

EDC	LOD (ppb)	LOQ (ppb)	a	b	R^2	Range
MeP	8	25	15.659	8.411	0.9333	15-0.375 ppm
			0.053	-0.582	0.9944	375-120 ppb
			0.009	-0.049	0.9903	120-25 ppb[1]
PrP	10	33	110.188	-19.207	0.9975	15-0.375 ppm
			0.079	0.044	0.9959	375-110 ppb
			0.009	-0.017	0.9962	110-33 ppb[1]
BuP	20	100	115.763	9.925	0.9968	15-0.375 ppm
			0.082	1.194	0.9978	375-150 ppb
			0.006	0.229	0.9778	150-100 ppb[1]
BP	23	80	161.541	4.705	0.9968	15-0.375 ppm
			0.087	1.408	0.9851	375-230 ppb
			0.005	-0.009	0.9958	230-80 ppb[1]
BPA	8	70	88.791	3.401	0.9954	15-0.375 ppm
			0.093	-2.343	0.9913	375-110 ppb
			0.010	-0.013	0.9947	110-70 ppb[1]
E	30	100	65.693	-0.514	0.9972	15-0.375 ppm
			0.072	-5.563	0.9864	375-230 ppb
			0.004	0.030	0.9887	230-100 ppb[1]

[1] Calibration curves were elaborated for the range between the instrumental limit of quantification (ILOQ) and LOQ, represented as peak height versus concentration.

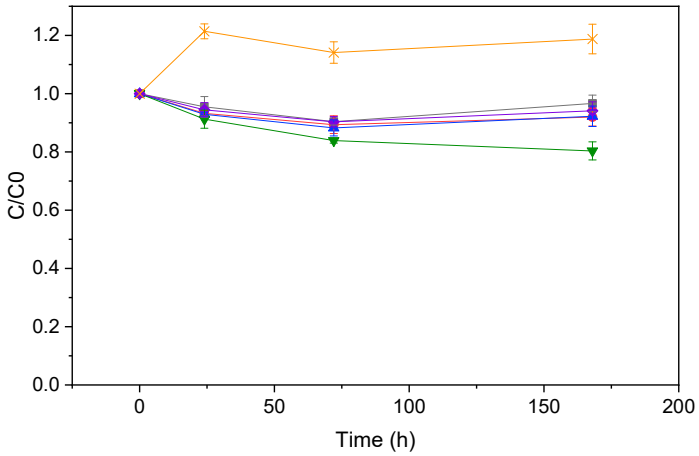

Fig. S1. L experiment EDCs removal for: MeP (black square), PrP (red circle), BuP (blue triangle), BP (green down triangle), BPA (purple diamond) and E (orange cross). Error bars represent ± standard error of the mean (n=3).

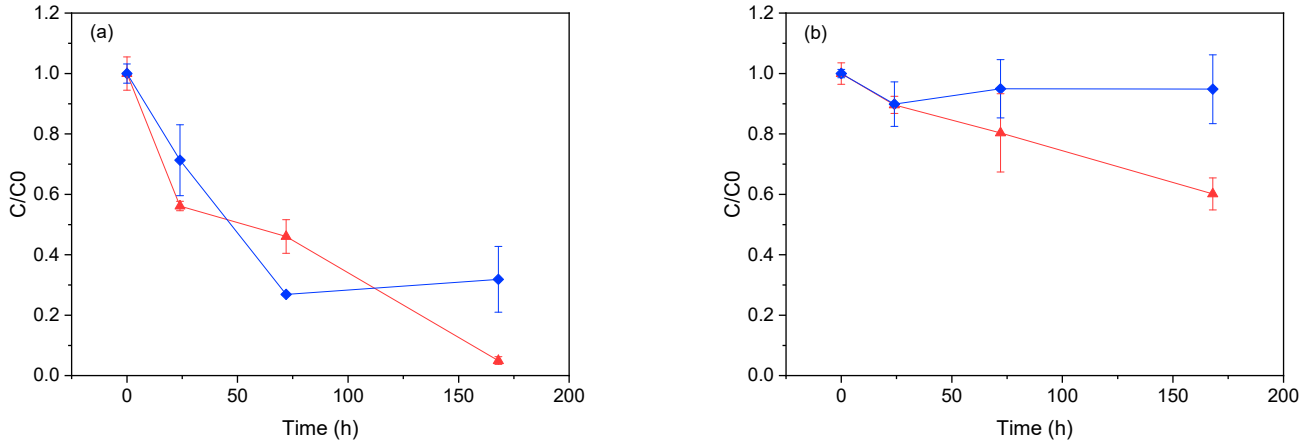

Fig. S2. BP removal (a) and E removal (b) for LO experiment (red triangle) and LO without E and BP (blue diamond). Error bars represent ± standard error of the mean (n=3).