APPENDIX

Tables

Table 1. Results obtained in the single substrate biodegradation experiments with the different phenolic compounds for COD reduction (%), pH and ecotoxicity (EC_{50}-5 min. (%). (The values are the arithmetic mean of at least two independent analyses).

	Gallic acid	Protocate-chuic acid	Vanillic acid	Syringic acid	Caffeic acid	Ferulic acid	Syringic aldehyde
				COD reduction (%)			
6 hours	68.6	86.9	86.2	30.6	83.3	51.1	16.0
Final	67.1	83.6	81.0	79.6	81.5	77.9	59.5
				pH			
Initial	3.8	4.0	3.7	3.9	4.1	3.9	4.4
Final	4.8	5.1	5.7	5.5	5.5	5.3	4.9
				EC_{50}-5 min (%)			
Initial	8.6	4.9	7.3	8.1	11.7	5.3	11.2
Final	27.4	42.0	45.9	53.3	48.9	26.5	27.5

Table 2. Values obtained in the biodegradation experiments with the mixture of seven phenolic compounds for COD (mg/l O_2), total phenols (mg/l), pH and ecotoxicity (EC_{50}-5 min (%). (The values are the arithmetic mean of at least two independent analyses).

Parameters Time (hours)	**COD** (mg/l O_2)	**pH**	**Ecotoxicity (EC_{50}-5 min %)**
0	520	3.9	4.1
1	515	4.0	11.3
2	390	4.0	10.4
4	210	4.2	5.9
6	100	4.7	31.0
8	55	4.9	41.4
24	45	5.2	51.9

Figures

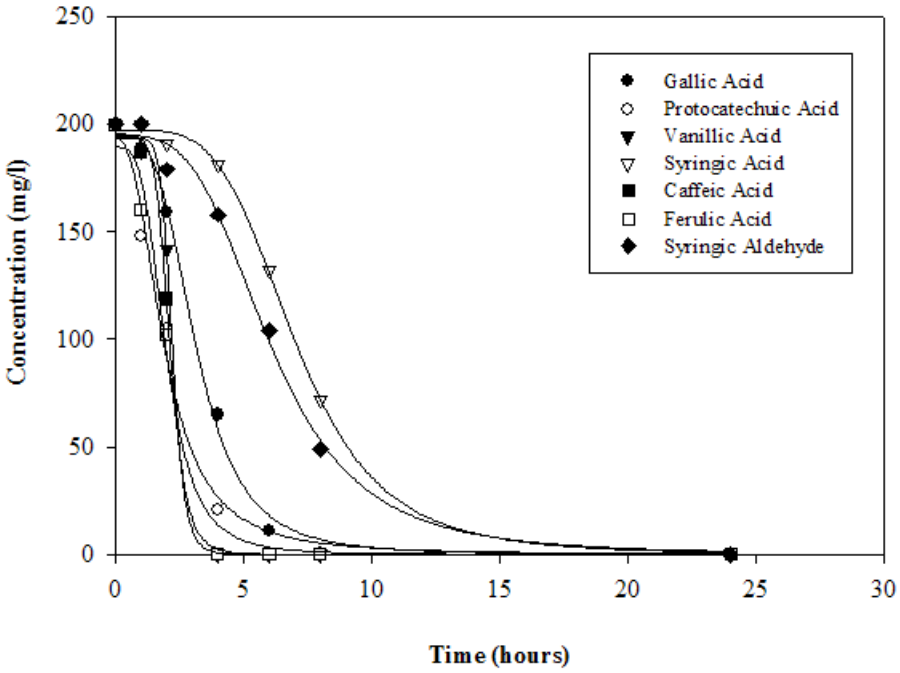

Figure 1. Depletion profiles of the seven monocyclic aromatic compounds, obtained in the single substrate experiments. The values presented are the average of duplicate experiments.

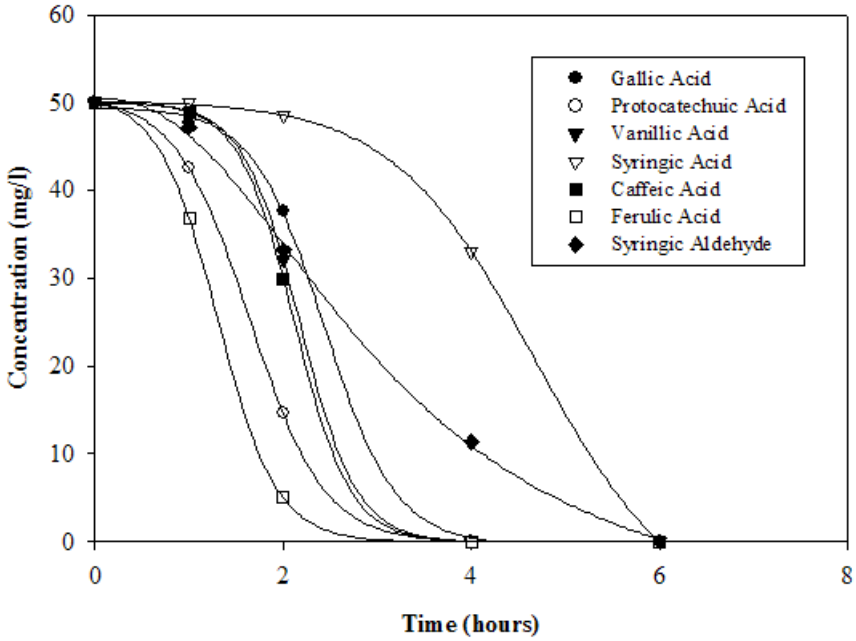

Figure 2. Depletion profiles of the seven monocyclic aromatic compounds, obtained in the mixed substrate experiments. The values presented are the average of duplicate experiments.