

Table S1.  $\log_{10}$  CFU  $\text{g}^{-1}$  of *Escherichia coli*, *Salmonella enterica*, *Listeria monocytogenes* and *Bacillus cereus* with % peak area of carbohydrates, lignin and lipids content in shoots of *S. europaea*.

Sample	Ec	Se	Lm	Bc	Carbohydrates	Lignin	Lipids
F1A	0	3.94	0	0	18.72	20.70	59.79
F1B	1.92	4.87	0	3.29	17.80	15.15	65.87
F1C	3.13	4.78	0	2.18	18.23	8.31	72.76
F1D	2.64	5.26	1.85	2.74	15.72	8.77	74.97
F1E	1.51	4.98	3.21	0	20.49	14.02	64.57
F2A	3.34	5.17	1.60	3.59	13.03	4.33	81.96
F2B	3.12	5.04	1.64	1.70	20.59	5.74	72.99
F2C	0	5.41	0.79	0	23.15	5.62	69.76

Table S2.  $\log_{10}$  CFU  $\text{g}^{-1}$  of *Escherichia coli*, *Salmonella enterica*, *Listeria monocytogenes* and *Bacillus cereus* with % peak area of carbohydrates, lignin and lipids content and log pH in rhizosphere soil.

Sample	Ec	Se	Lm	Bc	Carbohydrates	Lignin	Lipids	logpH
F1A	5.4 1	3.42	3.06	4.04	22.23	27.16	49.19	0.85
F1B	4.5 0	3.95	3.27	3.75	16.05	49.04	34.42	0.88
F1C	1.3 6	2.68	3.13	3.62	14.15	43.68	40.80	0.88
F2A	3.9 0	3.32	4.60	2.03	19.48	38.55	40.54	0.90
F2B	4.1 7	4.44	4.76	0	15.93	26.50	56.63	0.91
F2C	0	3.58	3.55	4.39	41.54	32.26	25.45	0.89

Table S3.  $\log_{10}$  CFU  $\text{g}^{-1}$  of *Escherichia coli*, *Salmonella enterica*, *Listeria monocytogenes* and *Bacillus cereus* with % peak area of carbohydrates, lignin and lipids content and log pH in bulk soil.

Sample	Ec	Se	Lm	Bc	Carbohydrates	Lignin	Lipids	logpH
F1A	0.98	3.11	2.95	2.13	38.25	45.60	14.88	0.87
F1B	0	1.72	2.64	3.04	22.99	43.36	31.53	0.88
F1C	1.31	3.05	2.83	1.08	18.55	22.28	57.31	0.88
F2A	3.60	4.64	3.19	3.56	10.75	23.43	64.69	0.87
F2B	3.44	4.40	3.18	2.42	9.62	9.95	77.84	0.87
F2C	3.83	4.70	3.50	3.69	16.99	18.77	62.36	0.86

Table S4. Carbohydrates, lignin and lipids content at 2 sites in France.

Sample	Carbohydrates		Lignin		Lipids	
	site 1	site 2	site 1	site 2	site 1	site 2
Shoots	18,25 $\pm$ 0,5 a	18,92 $\pm$ 5,3 a	14,72 $\pm$ 6,2 bc	5,23 $\pm$ 0,8 c	66,14 $\pm$ 6,5 abc	74,9 $\pm$ 6,3 a
Rhizosphere soil	17,48 $\pm$ 4,2 a	25,65 $\pm$ 13,9 a	39,96 $\pm$ 11,4 a	32,44 $\pm$ 6 ab	41,47 $\pm$ 7,4 abc	40,8 $\pm$ 15,6 bc

<b>Bulk soil</b>	26,6 ± 10,3 a	12,45 ± 4,0 a	37,08 ± 12,9 ab	17,38 ± 6,8 abc	34,58 ± 21,4 c	68,3 ± 8,3 ab
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