

Table S1. Antibiotic resistant (AR) strains presence/absence on lettuce leaves and top soil irrigated with urban wastewater treatment plant (UWTP) effluent treated with H₂O₂/sunlight process.

Irrigation week	Irrigation water		AR <i>E. coli</i>		AR <i>E. faecalis</i>	
			Lettuce leaves*	Top soil**	Lettuce leaves*	Top soil**
1 st	R1	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	R2	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	NC	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	PC	1	—	1.71x10 ³	—	9.65x10 ³
		2	—	1.65x10 ³	—	5.60x10 ³
		3	—	1.68x10 ³	1.20x10 ³	7.93x10 ³
2 nd	R1	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	R2	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	NC	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	PC	1	—	2.15x10 ²	1.67x10 ³	7.39x10 ²
		2	—	1.27x10 ²	5.00x10 ⁴	2.53x10 ³
		3	—	3.42x10 ²	1.00x10 ⁴	1.06x10 ³
3 rd	R1	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	R2	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	NC	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	PC	1	2.50x10 ⁴	5.44x10 ⁴	1.67x10 ⁶	4.54x10 ³
		2	6.33x10 ⁴	8.44x10 ⁴	6.33x10 ⁴	4.49x10 ³
		3	3.50x10 ⁴	4.96x10 ⁴	2.50x10 ⁶	7.28x10 ³
4 th	R1	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	R2	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	NC	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	PC	1	4.32x10 ⁴	1.27x10 ⁴	3.12x10 ⁴	1.90x10 ³
		2	8.50x10 ⁵	2.27x10 ⁵	6.83x10 ⁵	2.01x10 ⁴
		3	2.67x10 ⁵	9.50x10 ²	4.00x10 ⁵	1.00x10 ⁴
5 th	R1	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	R2	1	—	2.50x10 ¹	6.40x10 ³	—
		2	—	—	—	—
		3	—	—	—	—
	NC	1	—	—	—	—
		2	—	—	—	—
		3	—	—	—	—
	PC	1	1.12x10 ⁷	1.95x10 ⁴	9.50x10 ⁵	4.54x10 ³
		2	4.67x10 ⁶	1.27x10 ⁶	4.67x10 ⁵	2.53x10 ⁴
		3	4.50x10 ⁶	7.23x10 ⁴	1.88x10 ⁴	1.11x10 ⁴

— indicates the absence of AR *E. coli* or AR *E. faecalis* in lettuce leaves samples or top soil samples;

R1 indicates UWTP effluent disinfected with H₂O₂/sunlight process for 300 min;

R2 indicates UWTP effluent disinfected with H₂O₂/sunlight process for 90 min;

Negative control (NC) refers to mineral (potable) water, whilst positive control (PC) refers to mineral (potable) water in which both AR strains were inoculated (~10⁵ CFU mL⁻¹).

* in lettuce leaves samples AR strains are expressed as CFU 100mL⁻¹;

** in top soil samples AR strains are expressed as CFU 100g⁻¹ per dry weight.