

1 Table S1. CFU/L before and after UV processing, % inactivation, and average log reduction of
 2 bacterial pathogens in in PBS

PATHOGEN	5-strain cocktail/L	Before UV CFU/L	After UV CFU/L	% Inactivation	Log reduction (SD)
<i>E. coli</i> O157:H7	1ml	2.12 x 10 ⁹	0	100	9.5 (0.27)
	10ml	1.24 x 10 ¹⁰	1	99.9	10.0 (0.26)
<i>S. enterica</i>	1ml	6.87 x 10 ⁸	0	100	8.8 (0.16)
	10ml	5.47 x 10 ⁹	3	99.9	9.4 (0.41)
<i>L. monocytogenes</i>	1ml	1.53 x 10 ⁹	3	99.9	8.8 (0.44)
	10ml	9.47 x 10 ⁹	10	99.9	9.0 (0.25)
<i>Ps. syringae</i> pv. <i>tomato</i>	1ml	2.67 x 10 ⁸	2	99.9	8.1 (0.21)
	10ml	6.00 x 10 ⁹	24	99.9	8.5 (0.70)
<i>C. michiganensis</i> subsp. <i>michiganensis</i>	1ml	6.43 x 10 ⁸	20	99.9	7.5 (0.23)
	10ml	7.47 x 10 ⁹	193	99.9	7.5 (0.28)

3 all values represent averages (n=6)

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1 Table S2. Zoospores/L before and after UV processing, % inactivation, and log reduction of *Ph.*
 2 *capsici* in RO water

PATHOGEN	Before UV zoospores/L	After UV zoospores/L	% Inactivation	Log reduction (SD)
<i>Ph. capsici</i>	5 x 10 ⁴	0	100	4.7 (0.0)
	5 x 10 ⁵	5	99.9	5.0 (0.18)

3 all values represent averages (n=6)

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1 Table S3. CFU/L before and after UV processing, % inactivation, and average log reduction of
 2 bacterial pathogens in creek water

PATHOGEN	5 -strain cocktail/L	Before UV CFU/L	After UV CFU/L	% Inactivation	Log reduction (SD)
<i>E. coli</i> O157:H7	1ml	1.73 x 10 ⁹	0	100	9.5 (0.36)
	10ml	6.47 x 10 ⁹	2	99.9	9.5 (0.72)
<i>S. enterica</i>	1ml	4.67 x 10 ⁸	0	100	8.6 (0.23)
	10ml	8.00 x 10 ⁹	44	99.9	8.6 (0.67)
<i>L. monocytogenes</i>	1ml	1.97 x 10 ⁹	19	99.9	7.9 (0.42)
	10ml	1.17 x 10 ¹⁰	809	99.9	7.1 (0.25)
<i>Ps. syringae</i> pv. <i>tomato</i>	1ml	1.15 x 10 ⁹	26	99.9	7.7 (0.34)
	10ml	1.03 x 10 ¹⁰	198	99.9	7.7 (0.22)
<i>C. michiganensis</i> subsp. <i>michiganensis</i>	1ml	4.65 x 10 ⁸	62	99.9	6.9 (0.19)
	10ml	5.51 x 10 ⁹	1,817	99.9	6.5 (0.16)

3 all values represent averages (n=6)

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1 Table S4. Zoospores/L before and after UV processing, % inactivation, and log reduction of *Ph.*
 2 *capsici* in creek water

PATHOGEN	Before UV zoospores/L	After UV zoospores/L	% Inactivation	Log reduction (SD)
<i>Ph. capsici</i>	5 x 10 ⁴	0	100	4.7 (0.0)
	5 x 10 ⁵	8	99.9	4.8 (0.21)

3 all values represent averages (n=6)

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1 Table S5. CFU/L before and after UV processing, % inactivation, and average log reduction of
 2 bacterial pathogens in pond water

PATHOGEN	5-strain cocktail/L	Before UV CFU/L	After UV CFU/L	% Inactivation	Log reduction (SD)
<i>E. coli</i> O157:H7	1ml	2.67 x 10 ⁹	0	100	9.5 (0.12)
	10ml	8.00 x 10 ⁹	460	99.9	7.3 (0.33)
<i>S. enterica</i>	1ml	6.47 x 10 ⁸	4	99.9	8.3 (0.35)
	10ml	7.00 x 10 ⁹	108	99.9	7.9 (0.21)
<i>L. monocytogenes</i>	1ml	2.10 x 10 ⁹	123	99.9	7.2 (0.13)
	10ml	1.13 x 10 ¹⁰	4,576	99.9	6.3 (0.21)
<i>Ps. syringae</i> pv. <i>tomato</i>	1ml	1.68 x 10 ⁹	138	99.9	6.9 (0.42)
	10ml	1.11 x 10 ¹⁰	1,986	99.9	6.8 (0.22)
<i>C. michiganensis</i> subsp. <i>michiganensis</i>	1ml	1.92 x 10 ⁹	311	99.9	6.8 (0.18)
	10ml	1.84 x 10 ¹⁰	16,033	99.9	6.1 (0.16)

3 all values represent averages (n=6)

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1 Table S6. Zoospores/L before and after UV processing, % inactivation, and log reduction of *Ph.*
 2 *capsici* in pond water

PATHOGEN	Before UV zoospores/L	After UV zoospores/L	% Inactivation	Log reduction (SD)
<i>Ph. capsici</i>	5 x 10 ⁴	1	99.9	4.7 (0.0)
	5 x 10 ⁵	32	99.9	4.2 (0.15)

3 all values represent averages (n=6)

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