

**Table S1.** *D* values (J cm<sup>-2</sup>) of acid-adapted pathogenic (O157:H7 and non-O157:H7) and non-pathogenic *E. coli*.

Strain	Pre-incubation period (h)											
	0			1			2			3		
	<i>D</i> (J cm <sup>-2</sup> )	<i>r</i> <sup>2</sup>	CV (%)	<i>D</i> (J cm <sup>-2</sup> )	<i>r</i> <sup>2</sup>	CV (%)	<i>D</i> (J cm <sup>-2</sup> )	<i>r</i> <sup>2</sup>	CV (%)	<i>D</i> (J cm <sup>-2</sup> )	<i>r</i> <sup>2</sup>	CV (%)
25922 (ATCC)	0.215 ± 0.00	0.98	1.86	0.213 ± 0.00	0.99	1.88	0.236 ± 0.00	0.99	1,27	0.304 ± 0.00	0.99	0,33
	4	9		4	0		3	7		1	7	
EDL933 (O157:H7)	0.213 ± 0.00	0.99	0.47	0.211 ± 0.00	0.99	0.95	0.237 ± 0.00	0.98	0,42	0.306 ± 0.00	0.99	1,31
	1	3		2	2		1	7		4	5	
33/98 (O157:H7)	0.121 ± 0.00	0.98	1.65	0.123 ± 0.00	0.98	4.07	0.168 ± 0.00	0.98	2,38	0.281 ± 0.00	0.99	1,07
	2	8		5	9		4	7		3	4	
303/00 (O157:H7)	0.264 ± 0.00	0.99	0.76	0.266 ± 0.00	0.99	1,13	0.338 ± 0.00	0.99	1,18	0.420 ± 0.00	0.98	0,48
	2	5		3	4		4	4		2	9	
547/03 (O157:H7)	0.187 ± 0.00	0.99	1.60	0.184 ± 0.00	0.99	1,09	0.210 ± 0.00	0.99	1,43	0.320 ± 0.00	0.99	1,25
	3	8		2	9		3	6		4	4	
749/03 (O157:H7)	0.145 ± 0.00	0.99	0.74	0.142 ± 0.00	0.99	2,11	0.179 ± 0.00	0.98	0,56	0.244 ± 0.00	0.99	1,23
	1	4		3	3		1	9		3	1	
646/03 (O103:H2)	0.165 ± 0.00	0.98	0.61	0.167 ± 0.00	0.98	2,40	0.174 ± 0.00	0.98	2,87	0.299 ± 0.00	0.99	1,00

	1	5		4	9		5	9		3	4	
870/02 (O113:H21)	0.208 ± 0.00	0.99	1.44	0.209 ± 0.00	0.98	1,44	0.238 ± 0.00	0.99	1,26	0.335 ± 0.00	0.99	0,30
	3	1		3	8		3	0		1	4	
002/02 (O145:NM)	0.173 ± 0.00	0.98	2.89	0.170 ± 0.00	0.98	0,59	0.193 ± 0.00	0.98	2,59	0.282 ± 0.00	0.99	0,71
	5	7		1	7		5	8		2	4	
CIDCA1	0.092 ± 0.00	0.98	2.17	0.090 ± 0.00	0.98	3,33	0.126 ± 0.00	0.98	0,79	0.176 ± 0.00	0.99	1,70
(O26:H11)	2	8		3	6		1	8		3	6	

*E. coli* strains were grown in TSB at 37 °C for 18h and pre-incubated in pasteurized squeezed natural orange juice during 0, 1, 2 and 3 h at 10 °C and subsequently irradiated by UV and using TSA+0.1% Sodium Pyruvate (TSAP) as medium for the growth.  $r^2$ : Coefficient of determination. CV: Coefficient of variation