

Table S1. One-way ANOVA results for the bacterial growth.

Time, h	Source	DoF	Adj.SS	Adj.MS	F-value	p-value	$\Pi\%$
0	pH control	1	$2.54 \cdot 10^{10}$	$2.54 \cdot 10^{10}$	0.012	0.917	0.31
	Error	4	$8.18 \cdot 10^{12}$	$2.05 \cdot 10^{12}$			99.69
	Total	5	$8.21 \cdot 10^{12}$				
2	pH control	1	$6.60 \cdot 10^{11}$	$6.60 \cdot 10^{11}$	14.434	0.019	78.29
	Error	4	$1.83 \cdot 10^{11}$	$4.57 \cdot 10^{10}$			21.71
	Total	5	$8.43 \cdot 10^{11}$				
4	pH control	1	$1.32 \cdot 10^{11}$	$1.32 \cdot 10^{11}$	0.132	0.735	3.19
	Error	4	$4.01 \cdot 10^{12}$	$1.00 \cdot 10^{12}$			96.81
	Total	5	$4.14 \cdot 10^{12}$				
6	pH control	1	$8.82 \cdot 10^{13}$	$8.82 \cdot 10^{13}$	4.251	0.108	51.58
	Error	4	$8.30 \cdot 10^{13}$	$2.07 \cdot 10^{13}$			48.42
	Total	5	$1.71 \cdot 10^{14}$				
8	pH control	1	$1.39 \cdot 10^{15}$	$1.39 \cdot 10^{15}$	131.630	0.000	97.20
	Error	4	$4.22 \cdot 10^{13}$	$1.05 \cdot 10^{13}$			2.80
	Total	5	$1.43 \cdot 10^{15}$				
14	pH control	1	$9.05 \cdot 10^{15}$	$9.05 \cdot 10^{15}$	33.741	0.004	89.60
	Error	4	$1.07 \cdot 10^{15}$	$2.68 \cdot 10^{14}$			10.40
	Total	5	$1.01 \cdot 10^{16}$				
16	pH control	1	$1.13 \cdot 10^{14}$	$1.13 \cdot 10^{14}$	0.042	0.848	1.03
	Error	4	$1.08 \cdot 10^{16}$	$2.71 \cdot 10^{15}$			98.97
	Total	5	$1.10 \cdot 10^{16}$				
18	pH control	1	$2.08 \cdot 10^{17}$	$2.08 \cdot 10^{17}$	18.758	0.012	82.54
	Error	4	$4.43 \cdot 10^{16}$	$1.11 \cdot 10^{16}$			17.46
	Total	5	$2.52 \cdot 10^{17}$				
20	pH control	1	$4.32 \cdot 10^{15}$	$4.32 \cdot 10^{15}$	3.388	0.139	51.31
	Error	4	$5.10 \cdot 10^{15}$	$1.28 \cdot 10^{15}$			48.69
	Total	5	$9.42 \cdot 10^{15}$				
22	pH control	1	$2.02 \cdot 10^{16}$	$2.02 \cdot 10^{16}$	42.854	0.003	91.40
	Error	4	$1.88 \cdot 10^{15}$	$4.71 \cdot 10^{14}$			8.60
	Total	5	$2.21 \cdot 10^{16}$				
24	pH control	1	$2.07 \cdot 10^{16}$	$2.07 \cdot 10^{16}$	2.806	0.169	41.32
	Error	4	$2.94 \cdot 10^{16}$	$7.36 \cdot 10^{15}$			58.68
	Total	5	$5.01 \cdot 10^{16}$				

Table S2. One-way ANOVA results for the lactic acid concentration.

Time, h	Source	DoF	Adj.SS	Adj.MS	F-value	p-value	$\Pi\%$
14	pH control	1	0.635	0.635	31.199	0.005	88.56
	Error	4	0.081	0.020			11.44
	Total	5	0.717				
16	pH control	1	4.240	4.240	94.330	0.001	95.93
	Error	4	0.180	0.045			4.07
	Total	5	4.420				
18	pH control	1	3.671	3.671	33.142	0.005	89.23
	Error	4	0.443	0.111			10.77
	Total	5	4.114				
20	pH control	1	6.970	6.970	178.937	0.000	97.81
	Error	4	0.156	0.039			2.19
	Total	5	7.126				
22	pH control	1	9.120	9.120	144.268	0.000	97.31

		Error	4	0.253	0.063		2.69
		Total	5	9.372			
24	pH control		1	17.473	17.473	671.710	0.000
		Error	4	0.104	0.026		0.59
		Total	5	17.577			