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## **APPENDIX A**

### Experimental Data

**Table A.1** Data of *Listeria innocu* in non selective enrichment broth at 30°C (log CFU/ml)

Time	NB		LB		TSB		BLEB		FB		PB	
	1	2	1	2	1	2	1	2	1	2	1	2
0	2.07	2.02	2.05	2.05	2.05	2.05	2.10	2.00	2.02	2.07	2.04	2.06
2	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	0.00	0.30
4	2.30	2.60	2.30	2.60	2.60	2.30	2.30	2.30	2.30	2.30	2.90	2.60
6	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.60	3.30	3.85	3.83
8	3.30	3.60	3.60	3.30	3.60	3.30	3.30	3.60	3.30	3.60	4.66	4.58
10	4.15	4.30	4.08	3.60	4.48	4.34	3.60	4.08	3.30	3.78	5.56	5.56
12	4.60	4.60	4.30	4.30	5.00	5.26	4.30	4.30	4.30	4.30	6.30	6.58
14	5.30	5.60	5.60	5.60	5.78	5.30	5.30	5.30	5.30	5.60	7.53	7.51
16	6.30	6.30	6.78	6.30	6.78	7.30	6.60	6.30	6.30	6.30	8.34	8.00
20	7.78	7.30	7.60	7.78	8.00	8.15	8.15	7.30	7.30	8.08	8.60	8.78
24	8.48	7.78	7.60	7.30	8.66	8.51	8.41	8.51	7.30	8.30	9.00	8.90

**Table A.2** Data of *L. innocua* in non selective enrichment broth at 35°C (log CFU/ml)

Time	NB		LB		TSB		BLEB		FB		PB	
	1	2	1	2	1	2	1	2	1	2	1	2
0	2.07	2.02	2.05	2.05	2.05	2.05	2.10	2.00	2.32	2.67	2.42	2.57
2	2.30	2.60	2.30	2.60	2.60	2.30	2.60	2.30	2.30	2.78	2.60	2.30
4	2.90	2.78	2.90	3.00	3.08	2.78	2.78	2.60	2.30	2.60	2.90	2.60
6	3.82	3.58	3.78	3.62	4.18	4.09	3.90	3.87	3.26	3.38	3.85	3.83
8	4.45	4.56	4.56	4.64	5.09	5.03	4.56	4.53	3.78	3.90	4.66	4.58
10	5.38	5.68	5.41	5.56	6.20	6.19	5.58	5.64	4.73	4.45	5.56	5.56
12	6.53	6.38	6.51	6.26	7.11	7.03	6.70	6.56	5.24	5.34	6.30	6.58
14	7.56	7.45	7.34	7.15	7.94	8.03	7.70	7.58	6.64	6.58	7.53	7.51
16	7.60	7.78	7.90	7.60	9.08	9.13	8.48	8.34	7.58	7.60	8.08	8.34
20	8.30	8.60	8.06	8.12	9.34	9.15	8.78	8.92	8.51	8.60	8.78	8.60
24	8.30	8.90	8.45	8.51	9.53	9.20	9.08	8.98	8.79	8.41	8.90	9.00

**Table A.3** Data of *L. innocua* in non selective enrichment broth at 37°C (log CFU/ml)

Time	NB		LB		TSB		BLEB		FB		PB	
	1	2	1	2	1	2	1	2	1	2	1	2
0	2.07	2.02	2.05	2.05	2.05	2.05	2.10	2.00	2.32	2.67	2.42	2.57
2	2.30	2.30	2.30	2.30	2.30	2.60	2.60	2.30	2.30	2.30	2.60	2.30
4	2.60	2.30	3.00	2.78	2.60	2.30	2.30	2.30	2.30	2.60	2.78	2.30
6	3.60	3.60	3.90	4.20	3.60	3.78	3.30	3.30	3.30	3.30	3.78	3.60
8	3.78	3.30	3.30	3.30	4.15	3.90	3.30	4.30	3.30	3.60	3.60	4.30
10	4.64	4.73	4.56	4.60	4.99	4.94	4.30	4.56	3.30	4.30	4.60	4.48
12	5.58	5.53	5.26	5.30	6.20	5.78	5.20	5.41	4.30	4.30	5.53	5.48
14	6.66	6.88	6.38	6.45	7.16	7.14	6.38	6.34	5.60	6.00	6.45	6.73
16	7.60	7.81	7.00	7.20	7.85	7.95	7.60	7.30	6.60	6.30	6.78	7.66
20	8.41	8.48	7.60	8.08	9.41	9.15	8.78	8.90	8.08	8.20	8.64	8.76
24	8.38	8.41	8.48	8.45	9.30	9.41	8.60	9.30	8.60	9.30	8.91	8.60

**Table A.4** Data of *L. innocua* in non selective enrichment broth at 40°C (log CFU/ml)

Time	NB		LB		TSB		BLEB		FB		PB	
	1	2	1	2	1	2	1	2	1	2	1	2
0	2.07	2.02	2.05	2.05	2.05	2.05	2.10	2.00	2.32	2.67	2.42	2.57
2	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.60	2.30	2.30	2.60	2.30
4	3.00	2.30	2.60	2.30	2.78	2.90	2.78	2.30	2.60	2.30	2.60	2.30
6	3.20	3.08	3.00	3.26	3.45	3.15	3.00	3.08	2.90	3.08	3.15	2.78
8	3.90	3.78	3.79	3.85	4.08	4.20	3.90	3.30	3.30	3.60	3.38	3.41
10	4.90	4.76	5.00	4.78	4.30	4.90	4.60	4.30	4.34	3.78	4.60	4.90
12	5.58	5.38	5.60	5.30	5.78	5.30	5.34	5.41	4.78	4.60	5.00	5.15
14	6.26	6.00	6.30	6.30	6.05	6.11	6.20	6.15	4.60	4.60	5.30	5.78
16	7.15	7.38	7.20	7.15	6.90	6.78	6.45	6.38	5.30	5.30	6.26	6.15
20	7.66	7.75	7.38	7.34	7.85	7.68	8.15	7.90	7.30	6.30	7.00	7.20
24	7.78	7.60	7.60	7.90	8.30	8.78	8.56	8.20	6.30	6.60	7.90	7.60

**Table A.5** Data of *L. innocua* growth on acriflavine (log CFU/ml)

Time	5 mg/L		10 mg/L		20 mg/L		40 mg/L	
	1	2	1	2	1	2	1	2
0	8.76	9.00	8.73	8.78	8.66	8.60	8.41	8.78
2	9.15	9.38	9.03	9.58	6.75	6.60	5.92	5.78
4	8.98	9.41	9.02	9.00	6.16	6.30	4.41	4.90
6	8.92	9.41	7.66	7.78	6.05	6.00	<2	<2
8	9.10	8.90	7.41	7.78	5.13	5.48	<2	<2
10	9.08	9.78	6.83	6.90	5.00	5.00	<2	<2
12	9.34	9.30	6.26	6.30	3.90	3.60	<2	<2
16	9.01	9.26	7.16	7.08	3.30	3.60	<2	<2
20	9.06	9.34	8.23	8.53	<2	<2	<2	<2
24	8.90	8.60	9.19	0.94	<2	<2	<2	<2

**Table A.6** Data of *L. innocua* growth on polymyxin B (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	8.53	8.68	8.45	8.30	8.30	8.34	6.60	7.30
2	8.62	8.64	8.08	8.00	7.90	8.30	6.60	7.30
4	8.93	8.92	8.26	8.20	7.64	7.78	6.30	7.30
6	9.43	9.39	8.83	8.78	7.73	7.90	5.60	5.60
8	9.00	9.38	9.13	9.00	6.97	7.30	4.60	4.30
10	9.34	9.34	9.15	8.78	7.00	7.41	4.13	4.10
12	9.34	9.34	9.24	9.45	6.78	6.90	3.30	3.34
16	9.64	9.56	9.35	9.38	7.08	7.26	2.78	2.78
20	9.24	9.28	9.38	9.37	8.58	8.50	<2	<2
24	7.78	8.08	8.90	8.78	8.36	8.24	<2	<2



**Table A.7** Data of *L. innocua* growth on nalidixic acid (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	9.16	9.45	8.88	8.78	9.00	9.20	9.10	9.26
2	9.10	9.15	8.83	9.08	8.79	8.30	8.78	9.00
4	9.45	9.48	9.10	9.00	9.10	9.30	9.03	9.08
6	9.30	9.53	9.35	9.15	9.20	9.41	8.96	9.26
8	9.51	10.00	9.38	9.78	8.98	9.48	9.06	9.00
10	8.93	9.51	9.20	9.30	9.09	8.78	8.94	8.78
12	9.16	9.48	9.26	9.60	9.02	9.26	8.89	8.60
16	9.37	9.53	9.13	9.15	9.03	9.38	8.81	8.60
20	9.26	9.30	8.99	9.34	8.73	8.90	8.27	8.38
24	9.64	9.60	9.30	9.30	8.90	9.00	8.70	8.30

**Table A.8** Data of *L. innocua* growth on lithium chloride (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	9.01	9.00	8.86	8.90	8.88	9.26	9.06	8.78
2	8.83	8.30	8.76	8.60	8.58	8.78	8.70	8.30
4	8.99	8.60	9.13	9.20	9.04	9.41	8.51	8.60
6	9.20	9.20	9.16	9.15	9.12	8.78	8.60	8.78
8	9.48	9.60	9.40	9.20	9.41	9.30	8.76	8.78
10	9.26	9.30	9.26	9.30	9.38	9.30	8.82	9.20
12	9.26	9.26	9.14	9.15	9.16	9.00	8.83	9.08
16	9.25	9.20	9.11	9.08	9.22	9.34	8.86	9.08
20	9.01	8.60	8.95	9.08	9.03	8.60	8.86	8.90
24	9.15	9.08	9.16	9.26	9.29	9.00	8.88	9.00



**Table A.11** Data of *E. coli* growth on nalidixic acid (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	8.96	9.00	8.56	9.00	8.45	8.78	8.51	9.00
2	8.64	9.08	7.90	8.00	7.92	8.26	7.34	7.60
4	8.51	8.78	7.89	8.00	7.04	6.90	6.70	6.60
6	8.62	8.60	7.82	7.60	6.45	6.78	5.20	6.30
8	8.85	9.00	7.30	7.78	5.87	6.15	5.26	5.78
10	8.70	8.90	6.89	7.08	6.03	6.00	5.20	5.78
12	8.75	9.00	6.85	7.08	6.05	6.00	5.15	5.60
16	8.70	9.26	6.97	6.78	6.06	5.90	5.51	5.60
20	8.66	9.00	6.90	6.60	6.24	6.41	5.38	5.30
24	8.76	9.00	6.56	6.60	6.20	6.41	5.81	5.30

**Table A.12** Data of *E. coli* growth on lithium chloride (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	8.81	8.78	9.02	8.90	8.91	8.90	8.87	8.60
2	8.87	8.30	9.00	9.38	9.14	9.08	8.48	9.08
4	8.97	8.78	8.73	8.78	8.94	8.60	8.76	8.60
6	9.02	9.26	8.99	9.15	8.86	8.60	8.76	8.78
8	9.26	9.60	9.21	9.34	9.51	9.60	8.90	8.90
10	9.38	9.90	9.26	9.30	9.30	9.78	9.26	9.30
12	9.20	9.60	9.41	9.60	9.30	9.60	8.87	9.00
16	9.15	9.30	9.51	9.60	9.34	9.30	8.82	9.00
20	8.93	9.08	8.91	9.26	8.94	9.08	8.58	8.60
24	9.51	9.60	9.11	9.20	9.03	9.26	8.75	8.78

**Table A.13** Data of *S. aureus* growth on acriflavine (log CFU/ml)

Time	5 mg/L		10 mg/L		20 mg/L		40 mg/L	
	1	2	1	2	1	2	1	2
0	7.90	8.30	7.91	7.78	7.75	7.60	7.78	8.00
2	7.93	8.20	7.97	7.78	7.68	7.90	7.41	7.30
4	8.19	7.78	7.97	8.00	7.70	7.30	7.12	7.34
6	8.72	8.60	7.87	8.00	7.62	7.78	6.95	7.00
8	8.51	8.60	7.89	7.78	7.66	7.60	6.51	6.60
10	8.70	9.08	7.81	8.26	7.48	7.30	6.79	6.60
12	8.38	8.30	7.92	7.60	7.15	7.60	6.30	6.30
16	8.68	8.60	7.70	7.60	6.98	6.90	5.48	5.60
20	8.51	8.60	7.53	7.30	6.41	6.30	3.90	4.30
24	8.94	9.08	7.45	7.30	6.11	6.08	4.38	4.30

**Table A.14** Data of *S. aureus* growth on polymyxin B (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	7.78	7.90	8.00	8.00	7.60	8.15	8.06	8.03
2	7.30	7.60	7.30	7.78	8.00	8.00	7.26	7.34
4	8.41	8.30	7.90	8.08	8.30	8.34	6.90	6.30
6	7.90	8.09	8.26	8.21	8.17	8.13	6.15	6.08
8	8.31	8.32	8.26	7.90	8.30	8.78	5.30	5.78
10	8.21	8.19	7.90	8.30	8.30	8.60	4.62	4.63
12	8.22	8.19	8.15	8.26	8.56	9.38	4.11	4.04
16	8.41	8.45	8.70	8.72	8.60	8.30	4.73	4.70
20	8.48	8.41	8.73	8.64	8.38	8.68	5.10	5.00
24	9.01	9.10	8.00	7.60	8.12	8.11	7.22	7.16

**Table A.15** Data of *S. aureus* growth on nalidixic acid (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	8.53	8.60	8.04	8.20	8.05	8.53	7.98	8.30
2	8.18	8.08	8.21	8.08	8.02	8.08	8.17	7.90
4	8.16	8.00	7.97	8.08	8.06	8.15	8.06	8.20
6	8.03	8.30	8.11	8.15	7.94	8.30	7.96	8.00
8	7.75	8.15	7.88	8.34	7.91	8.08	7.78	7.78
10	7.82	8.00	7.62	7.90	8.45	8.30	7.99	8.34
12	7.85	7.90	7.75	8.08	7.86	7.90	7.85	8.20
16	7.83	7.60	7.70	7.78	7.79	7.90	8.07	8.08
20	7.64	7.78	7.30	7.60	7.11	7.45	7.62	7.30
24	7.68	7.30	7.64	7.60	7.31	7.26	7.68	7.60

**Table A.16** Data of *S. aureus* growth on lithium chloride (log CFU/ml)

Time	10 mg/L		20 mg/L		50 mg/L		100 mg/L	
	1	2	1	2	1	2	1	2
0	7.99	8.15	8.06	8.00	8.18	8.38	8.15	8.34
2	8.17	8.26	8.15	8.15	8.18	8.08	8.16	8.38
4	8.04	8.08	8.30	8.30	8.30	8.30	8.20	8.30
6	7.85	8.08	8.20	8.30	8.34	8.78	8.34	8.60
8	7.60	7.78	8.05	8.00	8.13	7.90	8.09	8.00
10	7.79	7.78	7.99	8.08	8.02	8.26	7.73	7.90
12	7.70	7.78	8.51	8.60	8.45	8.78	8.07	8.08
16	8.07	8.34	8.45	8.60	8.48	8.78	8.01	8.20
20	7.64	8.08	8.16	8.08	8.06	8.30	7.60	7.60
24	7.91	8.15	8.45	8.60	8.34	8.78	8.05	7.60

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