

**Table S1.** Prediction of *B. cereus* growth in the thawed PBM for parameters of bottle No. 1

Time (hours)	Predicted microbial counts	Prediction uncertainty interval (CFU/mL)	
	CFU/mL	Lower limit	Upper limit
0	$1.30 \times 10^2$	$1.30 \times 10^2$	$1.30 \times 10^2$
0.5	$1.43 \times 10^2$	$1.36 \times 10^2$	$1.68 \times 10^2$
1	$1.87 \times 10^2$	$1.48 \times 10^2$	$4.56 \times 10^2$
1.5	$3.22 \times 10^2$	$1.73 \times 10^2$	$3.11 \times 10^3$
2	$7.62 \times 10^2$	$2.18 \times 10^2$	$3.38 \times 10^4$
2.5	$2.39 \times 10^3$	$3.03 \times 10^2$	$3.22 \times 10^5$
3	$8.93 \times 10^3$	$4.68 \times 10^2$	$1.94 \times 10^6$

**Table S2.** Prediction of *B. cereus* growth in the thawed PBM for parameters of bottle No. 2

Time (hours)	Predicted microbial counts	Prediction uncertainty interval (CFU/mL)	
	CFU/mL	Lower limit	Upper limit
0	$2.00 \times 10^2$	$2.00 \times 10^2$	$2.00 \times 10^2$
0.5	$2.05 \times 10^2$	$2.01 \times 10^2$	$2.28 \times 10^2$
1	$2.24 \times 10^2$	$2.04 \times 10^2$	$5.89 \times 10^2$
1.5	$2.89 \times 10^2$	$2.10 \times 10^2$	$5.77 \times 10^3$
2	$4.89 \times 10^2$	$2.21 \times 10^2$	$9.95 \times 10^4$
2.5	$1.13 \times 10^3$	$2.40 \times 10^2$	$1.15 \times 10^6$
3	$3.45 \times 10^3$	$2.72 \times 10^2$	$6.37 \times 10^6$

**Table S3.** Prediction of *B. cereus* growth in the thawed PBM for parameters of bottle No. 3

Time (hours)	Predicted microbial counts	Prediction uncertainty interval (CFU/mL)	
	CFU/mL	Lower limit	Upper limit
0	$2.00 \times 10^2$	$2.00 \times 10^2$	$2.00 \times 10^2$
0.5	$2.04 \times 10^2$	$2.01 \times 10^2$	$2.26 \times 10^2$
1	$2.18 \times 10^2$	$2.03 \times 10^2$	$5.62 \times 10^2$
1.5	$2.64 \times 10^2$	$2.07 \times 10^2$	$5.18 \times 10^3$
2	$3.93 \times 10^2$	$2.13 \times 10^2$	$8.69 \times 10^4$
2.5	$7.55 \times 10^2$	$2.24 \times 10^2$	$1.02 \times 10^6$
3	$1.87 \times 10^3$	$2.41 \times 10^2$	$5.77 \times 10^6$

**Table S4.** Prediction of *B. cereus* growth during warming of thawed PBM for different initial post-pasteurization CFU concentrations

Initial concentration (CFU/mL)	Concentration after 1 hour (CFU/mL)			Concentration after 2 hours (CFU/mL)			Concentration after 3 hours (CFU/mL)		
CFU count	CFU count	Lower uncertainty limit	Upper uncertainty limit	CFU count	Lower uncertainty limit	Upper uncertainty limit	CFU count	Lower uncertainty limit	Upper uncertainty limit
1.0	1.5	1.2	3.6	6.0	1.7	$2.6 \times 10^2$	69.0	3.7	$1.5 \times 10^4$
5.0	7.3	5.8	18.0	30.0	8.5	$1.3 \times 10^3$	$3.5 \times 10^2$	18.0	$7.7 \times 10^4$
6.0	8.8	6.9	21.0	36.0	10.0	$1.5 \times 10^3$	$4.1 \times 10^2$	22.0	$9.3 \times 10^4$
10.0	15.0	12.0	36.0	60.0	17.0	$2.6 \times 10^3$	$6.9 \times 10^2$	37.0	$1.5 \times 10^5$
11.0	16.0	13.0	39.0	66.0	19.0	$2.8 \times 10^3$	$7.6 \times 10^2$	40.0	$1.7 \times 10^5$
15.0	22.0	17.0	53.0	89.0	25.0	$3.8 \times 10^3$	$1.0 \times 10^3$	55.0	$2.3 \times 10^5$
16.0	23.0	18.0	57.0	95.0	27.0	$4.1 \times 10^3$	$1.1 \times 10^3$	59.0	$2.5 \times 10^5$
20.0	29.0	23.0	71.0	$1.2 \times 10^2$	34.0	$5.1 \times 10^3$	$1.4 \times 10^3$	73.0	$3.1 \times 10^5$
21.0	31.0	24.0	75.0	$1.3 \times 10^2$	36.0	$5.4 \times 10^3$	$1.4 \times 10^3$	77.0	$3.2 \times 10^5$
25.0	37.0	29.0	89.0	$1.5 \times 10^2$	42.0	$6.4 \times 10^3$	$1.7 \times 10^3$	92.0	$3.9 \times 10^5$
26.0	38.0	30.0	93.0	$1.5 \times 10^2$	44.0	$6.7 \times 10^3$	$1.8 \times 10^3$	95.0	$4.0 \times 10^5$
30.0	44.0	35.0	$1.1 \times 10^2$	$1.8 \times 10^2$	51.0	$7.7 \times 10^3$	$2.1 \times 10^3$	$1.1 \times 10^2$	$4.6 \times 10^5$
31.0	45.0	36.0	$1.1 \times 10^2$	$1.8 \times 10^2$	53.0	$7.9 \times 10^3$	$2.1 \times 10^3$	$1.1 \times 10^2$	$4.8 \times 10^5$
35.0	51.0	40.0	$1.2 \times 10^2$	$2.1 \times 10^2$	59.0	$9.0 \times 10^3$	$2.4 \times 10^3$	$1.3 \times 10^2$	$5.4 \times 10^5$
36.0	53.0	41.0	$1.3 \times 10^2$	$2.1 \times 10^2$	61.0	$9.2 \times 10^3$	$2.5 \times 10^3$	$1.3 \times 10^2$	$5.6 \times 10^5$
40.0	58.0	46.0	$1.4 \times 10^2$	$2.4 \times 10^2$	68.0	$1.0 \times 10^4$	$2.8 \times 10^3$	$1.5 \times 10^2$	$6.2 \times 10^5$
41.0	60.0	47.0	$1.5 \times 10^2$	$2.4 \times 10^2$	70.0	$1.1 \times 10^4$	$2.8 \times 10^3$	$1.5 \times 10^2$	$6.3 \times 10^5$
45.0	66.0	52.0	$1.6 \times 10^2$	$2.7 \times 10^2$	76.0	$1.2 \times 10^4$	$3.1 \times 10^3$	$1.6 \times 10^2$	$7.0 \times 10^5$
46.0	67.0	53.0	$1.6 \times 10^2$	$2.7 \times 10^2$	78.0	$1.2 \times 10^4$	$3.2 \times 10^3$	$1.7 \times 10^2$	$7.1 \times 10^5$
50.0	73.0	58.0	$1.8 \times 10^2$	$3.0 \times 10^2$	85.0	$1.3 \times 10^4$	$3.5 \times 10^3$	$1.8 \times 10^2$	$7.7 \times 10^5$
51.0	75.0	59.0	$1.8 \times 10^2$	$3.0 \times 10^2$	87.0	$1.3 \times 10^4$	$3.5 \times 10^3$	$1.9 \times 10^2$	$7.9 \times 10^5$
99.0	$1.4 \times 10^2$	$1.1 \times 10^2$	$3.5 \times 10^2$	$5.9 \times 10^2$	$1.7 \times 10^2$	$2.5 \times 10^4$	$6.8 \times 10^3$	$3.6 \times 10^2$	$1.5 \times 10^6$
$1.0 \times 10^2$	$1.5 \times 10^2$	$1.2 \times 10^2$	$3.6 \times 10^2$	$6.0 \times 10^2$	$1.7 \times 10^2$	$2.6 \times 10^4$	$6.9 \times 10^3$	$3.7 \times 10^2$	$1.5 \times 10^6$