

**S1.** Results of microbiological analysis performed in samples inoculated at Department of Biochemistry and Microbiology, University of Chemistry and Technology Prague.

Experiment No.	Sample ID	Total amount intended for inoculation		Really inoculated number of <i>B. cereus</i> (verified from randomly selected samples)		Pressurization methods	
		Total of CFU/mL	Number of spores	Inoculated really	Number of spores	Method P1 - treatment in cycles	Method P2 - continuous treatment
<b>I</b>	1063 A1			9.10 × 10 <sup>6</sup>	3.50 × 10 <sup>6</sup>	1.90 × 10 <sup>2</sup>	
	1063 A2			1.10 × 10 <sup>7</sup>	4.10 × 10 <sup>6</sup>		2.00 × 10 <sup>3</sup>
	1063 B1					2.90 × 10 <sup>2</sup>	
	1063 B2						2.90 × 10 <sup>3</sup>
	1064 A1					1.10 × 10 <sup>2</sup>	
	1064 A2						1.80 × 10 <sup>3</sup>
	1064 B1					1.30 × 10 <sup>2</sup>	
	1064 B2						1.20 × 10 <sup>3</sup>
	1065 A1					2.70 × 10 <sup>2</sup>	
	1065 A2	1.10 × 10 <sup>9</sup>	4.10 × 10 <sup>8</sup>				1.80 × 10 <sup>3</sup>
	1065 B1					1.20 × 10 <sup>2</sup>	
	1065 B2						1.40 × 10 <sup>3</sup>
	1066 A1					1.00 × 10 <sup>2</sup>	
	1066 A2						2.20 × 10 <sup>3</sup>
	1066 B1			7.90 × 10 <sup>6</sup>	3.80 × 10 <sup>6</sup>	2.80 × 10 <sup>2</sup>	
	1066 B2			7.80 × 10 <sup>6</sup>	4.00 × 10 <sup>6</sup>		1.60 × 10 <sup>3</sup>
	1067 A1					1.30 × 10 <sup>2</sup>	
	1067 A2						1.60 × 10 <sup>3</sup>
	1067 B1					2.90 × 10 <sup>2</sup>	
	1067 B2						2.30 × 10 <sup>3</sup>

	BLANK 1			8.90 × 10 <sup>6</sup>	3.90 × 10 <sup>6</sup>	1.80 × 10 <sup>7</sup>	1.70 × 10 <sup>7</sup>
	BLANK 2			9.10 × 10 <sup>6</sup>	3.80 × 10 <sup>6</sup>	3.00 × 10 <sup>5</sup>	3.00 × 10 <sup>5</sup>
II	1068 B1					53	
	1068 B2						6.40 × 10 <sup>2</sup>
	1068 C1			5.00 × 10 <sup>6</sup>	1.70 × 10 <sup>5</sup>	75	
	1068 C2			7.90 × 10 <sup>6</sup>	1.60 × 10 <sup>5</sup>		5.30 × 10 <sup>2</sup>
	1070 A1					90	
	1070 A2						4.80 × 10 <sup>2</sup>
	1860 A1					1.10 × 10 <sup>2</sup>	
	1860 A2						4.00 × 10 <sup>2</sup>
	1860 B1					1.30 × 10 <sup>2</sup>	
	1860 B2						5.50 × 10 <sup>2</sup>
	1861 A1			3.70 × 10 <sup>6</sup>	1.30 × 10 <sup>5</sup>	1.50 × 10 <sup>2</sup>	
	1861 A2	5.30 × 10 <sup>8</sup>	1.90 × 10 <sup>7</sup>	2.90 × 10 <sup>6</sup>	1.20 × 10 <sup>5</sup>		5.60 × 10 <sup>2</sup>
	1861 B1					1.40 × 10 <sup>2</sup>	
	1861 B2						4.30 × 10 <sup>2</sup>
	1869 A1					1.30 × 10 <sup>2</sup>	
	1869 A2						6.50 × 10 <sup>2</sup>
	1690 A1					1.40 × 10 <sup>2</sup>	
	1690 A2						5.80 × 10 <sup>2</sup>
	1690 B1					83	
	1690 B2						5.30 × 10 <sup>2</sup>
	BLANK 1			4.10 × 10 <sup>6</sup>	1.30 × 10 <sup>5</sup>	6.40 × 10 <sup>6</sup>	7.10 × 10 <sup>6</sup>
	BLANK 2			3.70 × 10 <sup>6</sup>	1.50 × 10 <sup>5</sup>	1.00 × 10 <sup>5</sup>	1.40 × 10 <sup>5</sup>
III	1899 A1	4.30 × 10 <sup>7</sup>	1.70 × 10 <sup>4</sup>			< 5	< 5
	1899 A2					< 5	< 5

1899 B1	$3.30 \times 10^5$	$1.25 \times 10^2$	< 5	< 5
1899 B2	$3.10 \times 10^5$	$1.15 \times 10^2$	< 5	< 5
1908 A1			< 5	< 5
1908 A2			< 5	< 5
1908 B1			< 5	< 5
1908 B2			< 5	< 5
1979 A1			< 5	< 5
1979 A2			< 5	< 5
1979 B1			< 5	< 5
1979 B2			< 5	< 5
2038 A1			< 5	< 5
2038 A2			< 5	< 5
2038 B1			< 5	< 5
2038 B2			< 5	< 5
2157 A1	$2.90 \times 10^5$	95	< 5	< 5
2157 A2	$2.80 \times 10^5$	$1.28 \times 10^2$	< 5	< 5
2157 B1			< 5	< 5
2157 B2			< 5	< 5
BLANK 1	$2.90 \times 10^5$	$1.35 \times 10^2$	$5.50 \times 10^5$	$7.50 \times 10^5$
BLANK 2	$2.70 \times 10^5$	$1.11 \times 10^2$	$1.10 \times 10^2$	90

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S2. Results of microbiological analysis performed in samples inoculated at Department of Clinical Microbiology, University Hospital Hradec Králové.

Experiment No.	Sample ID	Total amount intended for inoculation	Total number of <i>B. cereus</i>		Pressurization methods			
			Before inoculation	After inoculation	Method P1 - treatment in cycles		Method P2 - continuous treatment	
					Quantitative assessment CFU/mL	Qualitative assessment after multiplication in THB	Quantitative assessment CFU/mL	Qualitative assessment after multiplication in THB
VI	M1	37	26	87	0	negative	0	negative
	M2	37	0	67	0	negative	0	negative
	M3	28	2	49	0	negative	0	negative
	M4	28	0	72	0	negative	0	negative
	M6	25	6	62	0	negative	0	negative
	M7	33	2	71	0	negative	0	negative
	M8	33	294	344	0	negative	0	negative
	M10	13	0	73	0	negative	0	negative
	BLANK 1	25	2	65	0	negative	35	positive
	BLANK 2	13	4	60	39	positive	0	negative
VII	M 1	87	72	147	0	negative	0	negative
	M 2	87	52	107	0	negative	0	negative
	M 3	87	0	55	0	negative	0	negative
	M 4	87	16	73	0	negative	0	negative
	M 5	79	2	45	0	negative	0	negative
	M 6	79	14	107	0	negative	0	negative
	M 7	79	28	93	0	negative	0	negative
	M 8	79	2	51	0	negative	0	negative
	M 9	72	0	42	0	negative	0	negative
	M 10	72	178	213	0	negative	3	positive
	BLANK	72	0	31	304	positive	> 10 <sup>3</sup>	poz.

VIII	M 1	44	0	72	0	negative	0	negative
	M 2	44	6	70	0	negative	0	positive
	M 3	47	18	75	0	positive	0	positive
	M 4	47	18	71	0	negative	3	negative
	M 5	39	148	191	0	negative	0	negative
	M 6	39	0	34	0	negative	0	negative
	M 7	35	48	113	0	negative	0	positive
	M 8	35	24	79	1	negative	3	negative
	M 9	27	0	45	0	negative	1	negative
	M 10	27	0	61	0	negative	0	positive
	BLANK	35	0	55	> 10 <sup>3</sup>	positive	> 10 <sup>3</sup>	positive

S3. Results of residual of *B. cerus* (in % CFU/mL).

Residual CFU/mL after pressurization of initial values in %		
Method	P1	P2
	0.01	0.05
	0.01	0.04
	0.04	0.33
	0.12	0.47
	1.21	0.93
	0.03	0.11
(Mean ± SD) CFU/mL	0.24 ± 0.48	0.32 ± 0.34