

SUPPORTING INFORMATION

Table S1. The resistance of *E. coli* cell towards freezing.

	Cell counting, CFU/ml	Cell counting, Θ_{CFU}^*
Before freezing	$1,7 \pm 0,3 * 10^9$	1 (100%)
After 2 weeks storing at -20 °C	$3,1 \pm 0,5 * 10^8$	0,18 (18%)
After 2 weeks storing at -70 °C	$1,6 \pm 0,4 * 10^9$	0,94 (94%)

* $\Theta_{\text{CFU}} = \text{CFU} / \text{CFU}_0$

Table S2. Comparison of number of living cells after enzymatic lysis by turbidimetry and cell counting.

	Turbidimetry		Cell counting	
	A_{650}	Θ_t^*	CFU/ml	Θ_{CFU}
Before treatment	0,403	1 (100%)	$3,3 \pm 0,4 * 10^8$	1 (100%)
After 30 minutes of treatment	0,207	0,38 (38%)	$1,1 \pm 0,3 * 10^8$	0,33 (33%)
After 1 hour of treatment	0,135	0,16 (16%)	$4,0 \pm 1,1 * 10^7$	0,12 (12%)
After 2 hours of treatment	0,081	0	$0,7 \pm 0,4 * 10^7$	0,02 (2%)

* $\Theta_t = (A_{\text{ini}} - A) / (A_{\text{ini}} - A_{2\text{h}})$