Supplemental Digital Content

Linked to the manuscript entitled "The lysis of pathogenic *Escherichia coli* by bacteriophages releases less endotoxin than betalactams" by Dufour *et al.*

Table S1: Nonlinear regression parameters associated with the modeling of the evolution of the free endotoxin concentration according to time obtained with strain 536 in presence of Imipenem, Ceftriaxone, 536_P1 and Amikacin.

Sigmoid function	Imipenem			
Best-fit values				
V _{max}	23616			
h	2.888			
K	86541			
Std. Error				
V _{max}	790.4			
h	0.3189			
K	103758			
Goodness of Fit				
Degrees of Freedom	9			
R ²	0.9906			
Absolute Sum of Squares	7,35E+06			
Sy.x	903.7			
Constraints				
h	h > 0.0			
K	K > 0.0			

Exponential growth function	Ceftriaxone			
Best-fit values				
Y_0	447.3			
K	0.02658			
Std. Error				
Y_0	433.4			
К	0.00539			
Goodness of Fit				
Degrees of Freedom	10			
R ²	0.9812			
Absolute Sum of Squares	8,72E+07			
Sy.x	2953			

Reverse exponential function	536_P1	Amikacin	
Best-fit values			
Y_0	429.5	429.5	
Plateau	24779	8824	
K	0.003985	0.01981	
Std. Error			
Plateau	3263	245.3	
K	0.0007158	0.00126	
Goodness of Fit			
Degrees of Freedom	10	10	
R ²	0.9937	0.9905	
Absolute Sum of Squares	1,26E+06	807297	
Sy.x	354.2	284.1	
Constraints			
Y_0	Y0 = 429.5	Y0 = 429.5	
K	K > 0.0	K > 0.0	

Table S2: Nonlinear regression parameters associated with the modeling of the evolution of the free endotoxin concentration according to time obtained with strain LM33 in presence of Cefoxitin, Imipenem, LM33_P1 and Amikacin.

Sigmoid function	Cefoxitin	Imipenem	
Best-fit values			
V _{max}	13629	63504	
h	1.715	1.753	
K	493.9	4576	
Std. Error			
V _{max}	1864	29102	
h	0.5781	0.6009	
K	934.1	8312	
Goodness of Fit			
Degrees of Freedom	9	9	
R ²	0.8919	0.9767	
Absolute Sum of Squares	2.199e+007	5.588e+007	
Sy.x	1563	2492	
Constraints			
h	h > 0.0	h > 0.0	
K	K > 0.0	K > 0.0	

Reverse exponential function	LM33_P1	Amikacin	
Best-fit values			
Y_0	1579	1579	
Plateau	5888	8179	
K	0.05645	0.04223	
Std. Error			
Plateau	782.7	394.6	
K	0.03751	0.007632	
Goodness of Fit			
Degrees of Freedom	10	10	
R ²	0.5511	0.9368	
Absolute Sum of Squares	2.134e+007	4.150e+006	
Sy.x	1461	644.2	
Constraints			
Y_0	Y ₀ = 1579	Y ₀ = 1579	
K	K > 0.0	K > 0.0	

Figure S1

A. Adsorption of bacteriophage 536_P1 on its host 536. Strain 536 grown in LB at 37 °C with shaking (100 rpm) was mixed with bacteriophage 536_P1 at a MOI of 10⁻⁴ and aliquots were taken at the indicated time points. Dots represent the mean of 3 independent experiments with the standard deviation.

B. Bacteriophage 536_P1 growth parameters. Bacteriophage 536_P1 was mixed with strain 536 (MOI 10⁻¹) at 37 °C with shaking. At the indicated time points, samples were analyzed in absence (grey lines) or in presence (black lines) of chloroform. The continuous lines represent the experimental measurements (mean of 2 independent experiments with standard error) while the dashed lines are the nonlinear regression obtained from these points.



