

Electronic Supplementary Material

Developing a bacteriophage cocktail for biocontrol of potato bacterial wilt

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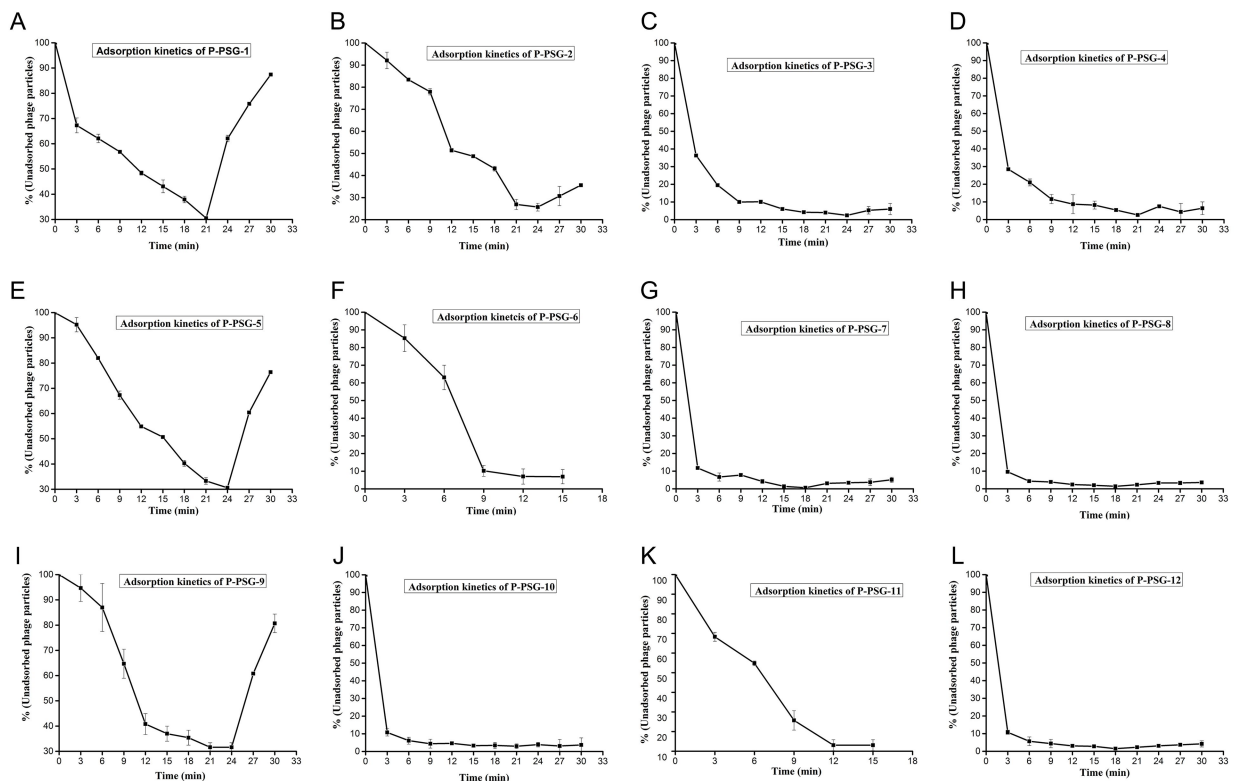


Figure S1. Adsorption kinetics curves for the 12 bacteriophage isolates.

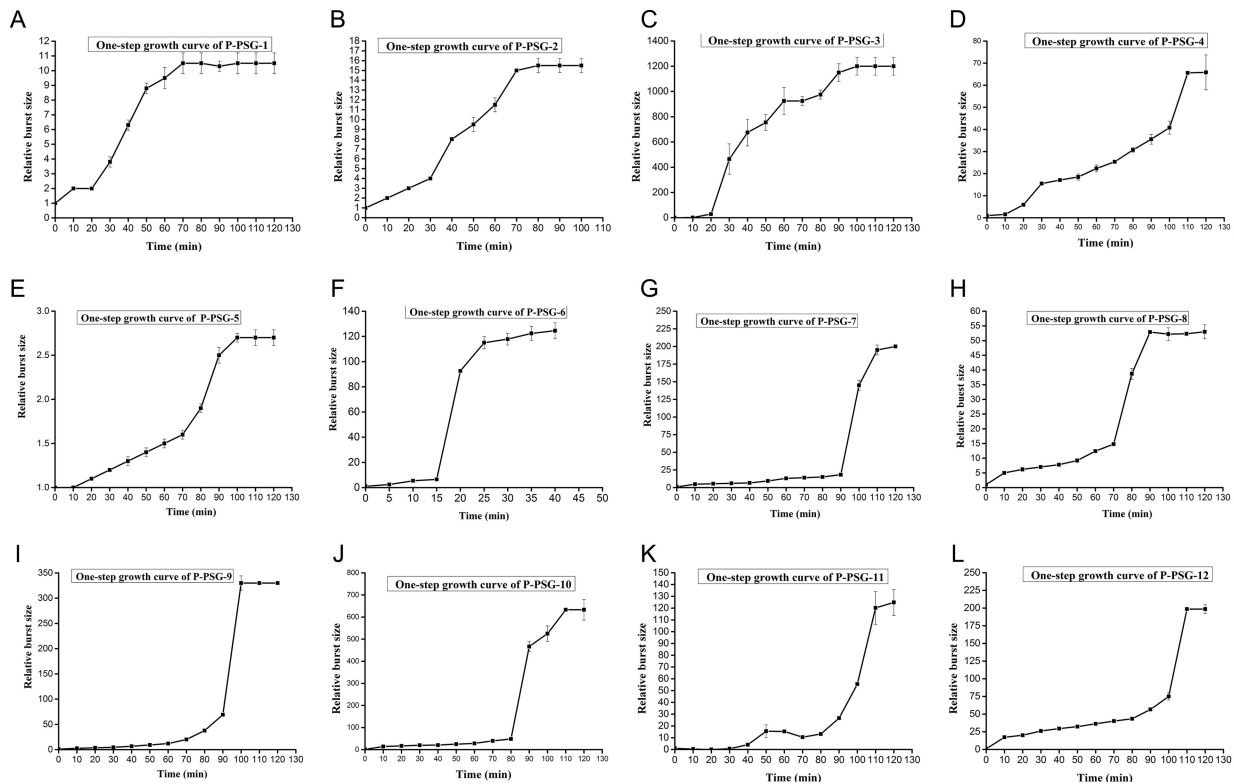


Figure S2. One-step growth curves for the 12 bacteriophage isolates.

Table S1. Bacteriophage cocktails used in lysis kinetics analyses

Group name	Titer (PFU)	MOI	Source
P-PSG-1	3.06×10^{10}	1	Single P-PSG-1
P-PSG-2	1.84×10^{10}	1	Single P-PSG-2
P-PSG-3	8.0×10^{10}	1	Single P-PSG-3
P-PSG-4	9.8×10^{10}	1	Single P-PSG-4
P-PSG-5	7.2×10^{10}	1	Single P-PSG-5
P-PSG-6	3.0×10^{10}	1	Single P-PSG-6
P-PSG-7	1.0×10^{10}	1	Single P-PSG-7
P-PSG-8	1.8×10^{10}	1	Single P-PSG-8
P-PSG-9	1.3×10^{10}	1	Single P-PSG-9
P-PSG-10	1.42×10^{10}	1	Single P-PSG-10
P-PSG-11	1.4×10^{10}	1	Single P-PSG-11
P-PSG-12	2.42×10^{10}	1	Single P-PSG-12
P-PSG-(1/2)	10^{10}	1	Equivalent volume mixture of P-PSG-1, P-PSG-2
P-PSG-(1/8)	10^{10}	1	Equivalent volume mixture of P-PSG-1, P-PSG-8
P-PSG-(3/10)	10^{10}	1	Equivalent volume mixture of P-PSG-3, P-PSG-10
P-PSG-(6/11)	10^{10}	1	Equivalent volume mixture of P-PSG-6, P-PSG-11
P-PSG-(1/4/7)	10^{10}	1	Equivalent volume mixture of P-PSG-1, P-PSG-4, P-PSG-7
P-PSG-(1/7/12)	10^{10}	1	Equivalent volume mixture of P-PSG-1, P-PSG-7, P-PSG-12
P-PSG-(2/9/10)	10^{10}	1	Equivalent volume mixture of P-PSG-2, P-PSG-9, P-PSG-10

To be continued

Group name	Titer (PFU)	MOI	Source
P-PSG-(3/5/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-3, P-PSG-5, P-PSG-12
P-PSG-(4/8/9)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-4, P-PSG-8, P-PSG-9
P-PSG-(5/7/9)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-5, P-PSG-7, P-PSG-9
P-PSG-(6/8/11)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-6, P-PSG-8, P-PSG-11
P-PSG-(1/2/7/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-7, P-PSG-12
P-PSG-(1/3/8/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-3, P-PSG-8 P-PSG-12
P-PSG-(2/3/4/5)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-5
P-PSG-(2/4/9/11)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-4, P-PSG-9, P-PSG-11
P-PSG-(3/5/10/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-3, P-PSG-5, P-PSG-10, P-PSG-12
P-PSG-(6/8/10/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-6, P-PSG-8, P-PSG-10, P-PSG-12
P-PSG-(1/2/3/4/6)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-6
P-PSG-(1/3/6/8/11)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-3, P-PSG-6, P-PSG-8, P-PSG-11
P-PSG-(2/3/4/5/8)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-5, P-PSG-8
P-PSG-(2/3/4/6/11)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-6, P-PSG-11
P-PSG-(2/4/5/7/9)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-4, P-PSG-5, P-PSG-7, P-PSG-9
P-PSG-(3/6/8/10/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-3, P-PSG-6, P-PSG-8, P-PSG-10, P-PSG-12
P-PSG-(4/6/7/9/11)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-4, P-PSG-6, P-PSG-7, P-PSG-9, P-PSG-11
P-PSG-(1/2/3/4/5/6)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-5, P-PSG-6
P-PSG-(1/2/3/7/8/9)=P1	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-7, P-PSG-8, P-PSG-9
P-PSG-(2/3/6/7/9/11)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-3, P-PSG-6, P-PSG-7, P-PSG-9, P-PSG-11
P-PSG-(3/4/5/8/9/10)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-3, P-PSG-4, P-PSG-5, P-PSG-8, P-PSG-9, P-PSG-10
P-PSG-(4/5/6/10/11/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-4, P-PSG-5, P-PSG-6, P-PSG-10, P-PSG-11, P-PSG12
P-PSG-(7/8/9/10/11/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-7, P-PSG-8, P-PSG-9, P-PSG-10, P-PSG-11, P-PSG-12
P-PSG-(1/2/3/4/6/7/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-6, P-PSG-7, P-PSG-12
P-PSG-(1/2/3/4/6/11/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-6, P-PSG-11, P-PSG-12
P-PSG-(2/3/4/5/8/9/10)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-5, P-PSG-8, P-PSG-9, P-PSG-10
P-PSG-(1/2/3/4/5/6/7/8/9/10/11/12)	10 ¹⁰	1	Equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-5, P-PSG-6, P-PSG-7P-PSG-8, P-PSG-9, P-PSG-10, P-PSG-11, P-PSG-12

To be continued

Group name	Titer (PFU)	MOI	Source
Host broth only	10 ¹⁰ (CFU)	/	No bacteriophages present
Bacteriophage cocktail only	10 ¹⁰	/	No host; equivalent volume mixture of P-PSG-1, P-PSG-2, P-PSG-3, P-PSG-4, P-PSG-5, P-PSG-6, P-PSG-7P-PSG-8, P-PSG-9, P-PSG-10, P-PSG-11, P-PSG-12