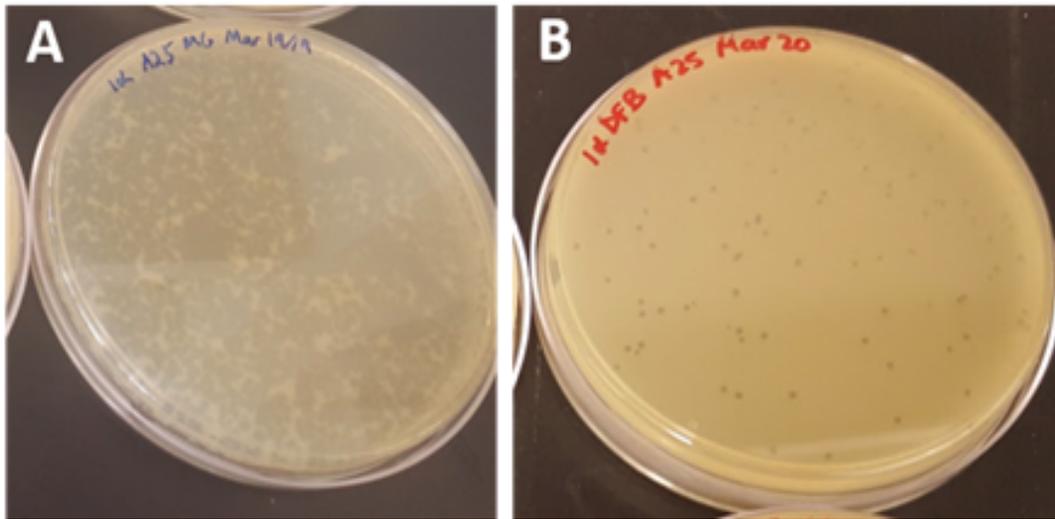


**FIG S1. *Escherichia coli* K-12 strain DFB1655 L9 is resistant to T4 bacteriophage infection while strain MG1655 is susceptible.** (A, B) Double agar overlay assays with T4 bacteriophage were conducted with bacterial lawns of either DFB1655 L9 (A) or MG1655 (B). (C, D) Control lawns were grown of each strain, MG1655 (C) and DFB1655 L9 (D), without phage.



**FIG S2: Double agar overlay plates after the adsorption assay at the 25-minute time point.**

(A) MG1655 was incubated with T4 bacteriophage for 25 minutes and plated with a lawn of MG1655. This plate shows an uncountable amount of plaques. (B) DFB1655 L9 was incubated with T4 bacteriophage and plated with a lawn of MG1655. This plate shows 110 plaques.

**A**

<b>Time (min)</b>	<b>Plate 1 (pfu)</b>	<b>Plate 2 (pfu)</b>	<b>Average (pfu)</b>	<b>Dilution</b>	<b>Concentration(pf u/mL)</b>
0	113	102	107.5	2000	$2.15 \times 10^5$
1	92	93	92.5	2000	$1.85 \times 10^5$
2	76	79	77.5	2000	$1.55 \times 10^5$
3	83	61	72	2000	$1.44 \times 10^5$
4	60	80	70	2000	$1.40 \times 10^5$
5	66	58	62	2000	$1.24 \times 10^5$
6	60	48	54	2000	$1.08 \times 10^5$
7	38	45	41.5	2000	$8.3 \times 10^4$
8	48	37	42.5	2000	$8.5 \times 10^4$
9	31	34	32.5	2000	$6.5 \times 10^4$
10	33	35	34	2000	$6.8 \times 10^4$
15	18	N/A	18	2000	$3.6 \times 10^4$
25	TNC	N/A	N/A	2000	N/A

**B**

<b>Plate 1 (cfu)</b>	<b>Plate 2 (cfu)</b>	<b>Average (cfu)</b>	<b>Dilution</b>	<b>Concentration (cfu/mL)</b>
TNC	TNC	N/A	$1 \times 10^5$	N/A
53	41	47	$1 \times 10^6$	$4.7 \times 10^7$

**Table S1: Bacteriophage and bacterial concentrations during MG1655 Adsorption Assay.**

(A) Concentration of bacteriophage in chloroform treated supernatant after incubation with MG1655. (B) Concentration of MG1655 during assay. TNC stands for too numerous to count and N/A stands for not available.

**A**

<b>Time (min)</b>	<b>Plate 1 (pfu)</b>	<b>Plate 2 (pfu)</b>	<b>Average (pfu)</b>	<b>Dilution</b>	<b>Concentration (pfu/mL)</b>
0	104	100	102	2000	$2.04 \times 10^5$
1	95	98	96.5	2000	$1.93 \times 10^5$
2	99	86	92.5	2000	$1.85 \times 10^5$
3	97	89	93	2000	$1.86 \times 10^5$
4	91	91	91	2000	$1.82 \times 10^5$
5	97	95	96	2000	$1.92 \times 10^5$
6	104	105	104.5	2000	$2.09 \times 10^5$
7	94	84	89	2000	$1.78 \times 10^5$
8	78	79	78.5	2000	$1.57 \times 10^5$
9	83	80	81.5	2000	$1.63 \times 10^5$
10	76	101	88.5	2000	$1.77 \times 10^5$
15	112	N/A	112	2000	$2.24 \times 10^5$
25	110	N/A	110	2000	$2.20 \times 10^5$

**B**

<b>Plate 1 (cfu)</b>	<b>Plate 2 (cfu)</b>	<b>Average (cfu)</b>	<b>Dilution</b>	<b>Concentration (cfu/mL)</b>
TNC	TNC	N/A	$1 \times 10^5$	N/A
28	31	29.5	$1 \times 10^6$	$2.95 \times 10^7$

**Table S2: Bacteriophage and bacterial concentrations during DFB1655 L9 Adsorption**

**Assay.** (A) Concentration of bacteriophage in chloroform treated supernatant after incubation with DFB1655 L9. (B) Concentration of DFB1655 L9 during assay. TNC stands for too numerous to count and N/A stands for not available.