**SUPPLEMENTAL**

**TITLE: Cell elongation by depletion of FtsZ in *Escherichia coli* strainDH5ɑ increases adsorption of T4 bacteriophage**

**Table S1. Summary of antisense RNA and empty vector plasmid construct features.**

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| --- | --- | --- | --- |
| **Plasmid** | **Features** | **Antibiotic Resistance Gene** | **Obtained from:** |
| DEAN-pZ | *ftsZ* antisense RNA | Chloramphenicol | Dr. Liam Good, University of London |
| DEAN-pHN678 | Empty Vector | Chloramphenicol | Dr. Liam Good, University of London |

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**Figure S1. Confirmation of T4 bacteriophage via PCR and gel electrophoresis.** *gp23* was amplified via PCR and run on a 1% agarose gel. Lane 2 represents T4 bacteriophage lysate amplified with T4 bacteriophage primers, with an anticipated band size of 398 base pairs. Lane 3 represents T4 bacteriophage lysate amplified with T7 bacteriophage primers.

**Titer of T4 bacteriophage stock.** The concentration of T4 bacteriophage stock was determined through a double overlay plaque assay. Dilutions of bacteriophage were mixed with *E. coli* DH5a, plated, and incubated at 37 oC overnight. A phage titer of 9.00 x 107 pfu/mL was determined.

**PCR amplification of *gp23* confirmed T4 bacteriophage identity.** The identity of the T4 bacteriophage stock was determined through PCR amplification of *gp23*. *gp23* encodes the major T4 bacteriophage capsid protein with a 398 base pair expected band size. Amplification of *gp23* is observed without any presence of T7 bacteriophage contamination, confirming the T4 bacteriophage identity and purity (Fig S1. lanes 2-3).