

Fig S1. Images of Two dimensional gel electrophoresis gels. The left image is for the untreated control; the right image is for Gm treated samples. Green represents protein spot intensity from the wild type strain and red for the *rpoS* mutant. Shades of yellow indicate proportional levels of expression in both strains. See Materials and Methods for the experimental protocol.

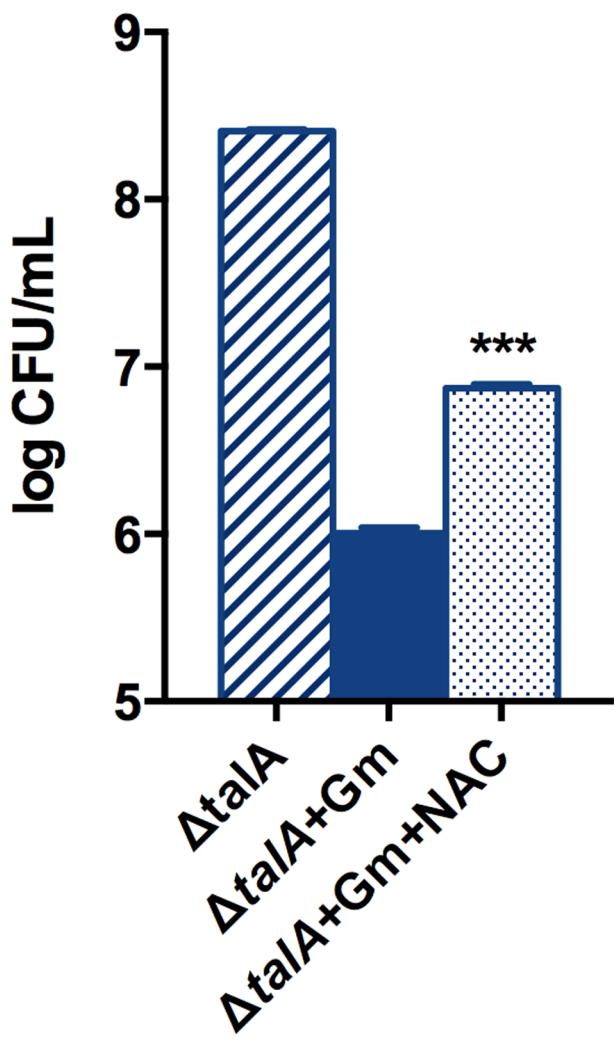


Fig S2. N-acetyl cysteine (NAC) dampens the lethal effect of Gm in the stationary phase $\Delta talA$ mutant of *E. coli* strain BW25113. Treatment was for 24 hours; results of untreated $\Delta talA$ strain are reproduced from Figure 4 for ease of comparison. *** ($p < 0.001$) compare cell survival of Gm-treated cells with or without NAC.

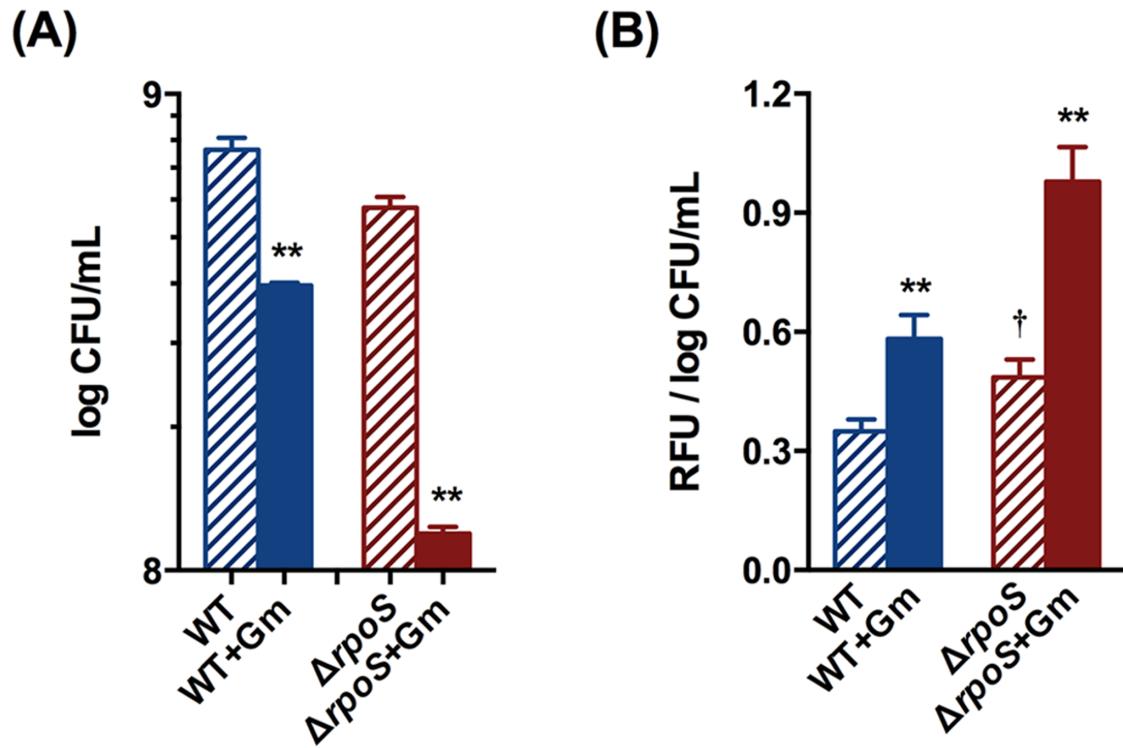


Fig S3. Gm treatment of the stationary phase $\Delta rpoS$ mutant of uropathogenic *E. coli* AMG1 also results in greater lethality and ROS levels than the isogenic wild type. AMG1 was less sensitive to Gm than the BW25113 strain, and 48 hour treatment was required to generate significant killing. **(A)** Cell viability after Gm treatment for 48 hours for the indicated strains. Solid bars show the effect of Gm-treatment; bars with stripes are untreated controls. **(B)** Effect of 48 hour Gm treatment on mean relative fluorescence units (RFU) of 3'-(p-hydroxyphenyl) fluorescein (HPF) in cells of the two strains. ** $p < 0.01$ represents Student's t-test comparison between Gm-treated and untreated cells; † $p < 0.05$ represents comparison between untreated cells of the wild type and the mutant.

Table S1. Viability of UPEC and BW25113 strains after gentamicin treatment (16 μ g/mL) for various times

(A) UPEC

	% untreated			p value ^a
	24h	48h	72h	
Wild Type	89.22±5.29	51.92±0.69	8.49±8.43	0.0001
$\Delta rpoS$	65.17±8.65	20.69±0.72	0.64±0.6	0.0014

(B) BW25113

	% untreated			p value ^b
	24h	48h		
Wild Type	27.82±2.16	13.2±1		0.0004
$\Delta rpoS$	0.83±0.16	0.09±0.04		0.0015
$\Delta sodA/sodB$	0.53±0.41	0.00±0		0.0887
$\Delta katE/sodA$	18.7±1.6	9.2±0.92		0.0009
$\Delta zwf/gnd$	6.13±0.23	2.72±0.04		0.0001
$\Delta talA$	2.51±0.32	0.08±0.03		0.0002

^ap value in (A) was determined by one-way ANOVA among three time points of the same strain

^bp value in (B) was compared by t-test between 24h and 48h time of the same strain