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RcsB-deficient *Escherichia coli* K-12 Do Not Exhibit Decreased Intrinsic Resistance Towards Antibiotics That Target the Cell Wall

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SUPPLEMENTAL MATERIAL

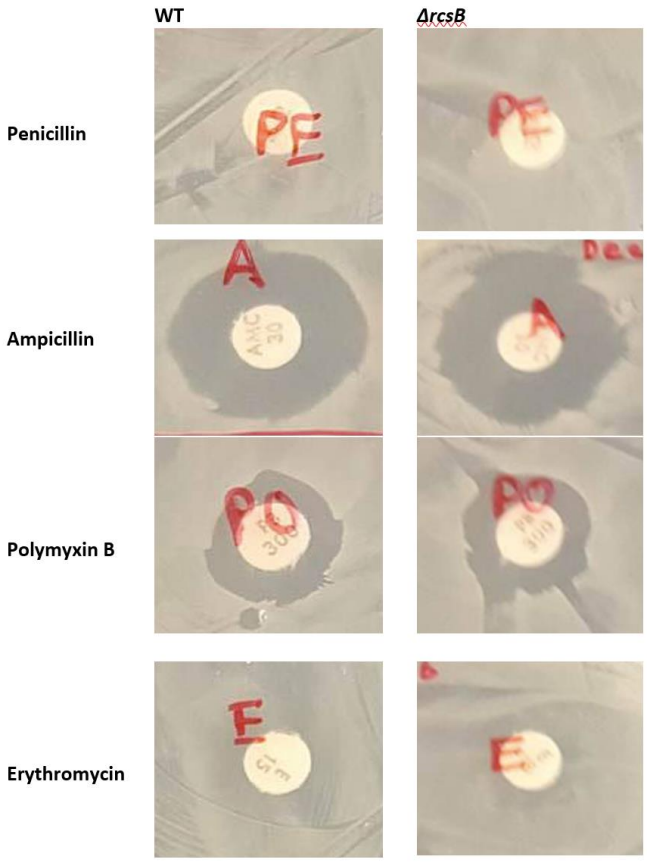

FIG. S1 Inhibition zones of WT and *ΔrcsB* strains in the presence of antibiotics.

TABLE S1 Highest concentration of antibiotics with observed cell growth pooled from 6 independent microbroth dilution MIC assays. Overnight (O/N) cultures of WT and Δ*rcsB* strains were either immediately diluted, or transferred in fresh LB broth for 2.5 hours (2.5h) before inoculation. The highest concentration of antibiotics is reported followed by the number of replicates that exhibited growth

Strain	Inoculum source	Overnight culture volume	Inoculum density (cfu/mL)	Concentration (μg/mL)			
				Penicillin	Phosphomycin	Streptomycin	Tetracycline
WT	O/N	2 mL	$10^4 – 10^5$	25.0 (5/5)	0 (5/5)	3.1 (4/5) 6.3 (1/3)	0.4 (2/2)
		5 mL	$10^7 – 10^8$	50.0 (2/2)	-	-	-
			$10^6 – 10^7$	50.0 (2/2)	-	-	-
			$10^5 – 10^6$	50.0 (2/2)	-	-	-
			$10^4 – 10^5$	12.5 (2/8) 25.0 (6/8)	0 (4/6) 3.1 (2/6)	3.1 (6/6)	0.4 (2/6) 0.8 (4/6)
			$10^3 – 10^4$	25.0 (2/2)	-	-	-
			$10^2 – 10^3$	25.0 (2/2)	-	-	-
	2.5h	5 mL	$10^4 – 10^5$	25 (2/2)	0 (2/2)	3.1 (2/2)	0.8 (2/2)
ΔrcsB	O/N	2 mL	$10^4 – 10^5$	25.0 (4/5) 12.5 (1/5)	0 (5/5)	0.8 (1/5) 1.6 (1/3) 6.3 (3/5)	0.4 (2/2)
		5 mL	$10^7 – 10^8$	50.0 (2/2)	-	-	-
			$10^6 – 10^7$	50.0 (2/2)	-	-	-
			$10^5 – 10^6$	50.0 (2/2)	-	-	-
			10^4 - 10^5	6.3 (2/8) 12.5 (3/8) 25.0 (3/8)	0 (3/6) 1.6 (1/6) 3.1 (2/6)	3.1 (6/6)	0.4 (3/6) 0.8 (3/6)
			$10^3 – 10^4$	25.0 (2/2)	-	-	-
			$10^2 – 10^3$	25.0 (2/2)	-	-	-
	2.5h	5 mL	$10^4 – 10^5$	25.0 (2/2)	0 (2/2)	3.1 (2/2)	0.8 (2/2)

Table S2 Mean numbers (n=2) of colony forming units in WT and *ΔrcsB* strains when plated on various concentrations of penicillin. 100 μL of overnight cultures diluted to 10^{-7} were spread onto each plate

Strain	Antibiotic Concentration		
	0 μg/mL	12.5 μg/mL	20.0 μg/mL
WT	55	52	62
Δ*rcsB*	56	56	52