

## Supplemental material

### Supplementary Table Bacteria and exposure conditions used in RNA-sequencing

Bacterium	Exposure conditions	Growth conditions prior to RNA extraction
C (P0)	0 passages	BAC-free
C (0)-PR	0 passages	100 ng/ L of BAC
C (P20)	20 passages BAC-free	BAC-free
C (P20)-PR	20 passages BAC-free	100 ng/L of BAC
B (P20)	20 passages in 100 ng/L BAC	BAC-free
B (P20)-PR	20 passages in 100 ng/L BAC	100 ng/L BAC

#### Supplementary text

(Figure 1). There was an 18 % (95% CI: 15-22) and 12 % (95% CI: 9-16) reduction in maximum culture density in C (P10) and C (P20) respectively and a 110 % (95% CI: 50-200) increase in growth rate in both isolates when compared to the non-passaged parent bacterium C (P0). After 10 passages in the presence of 100 ng/L BAC a 7 % (95% CI: 4-10) increase in culture density occurred and no change in growth rate when compared to the respective control (C (P10)). After 20 passages in the presence of 100 ng/L of BAC this changed to a 15 % (95%CI: 12-18) reduction in culture density and a 33 % decrease in growth rate (95% CI: 10-52) compared to control C (P20). Passage in the presence of 1000 ng/L of BAC saw a 22 % (95 %CI: 19-25) decrease in maximum culture density in bacteria after 10 passages and no initial alternation in growth rate relative to the respective control. After 20 passages maximum growth remained at a 22 % (95 %CI: 19-25) reduction whilst growth rate was found to have decreased by 33 % (95%CI: 10-52).

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The passage of *E. coli* 10 or 20 times in medium without the addition of BAC led to a significant decrease in biofilm formation in the adapted bacteria ( $p < 0.05$ ). However, similar passage in the presence of BAC at 100 or 1000 ng/L resulted in significantly greater reductions biofilm formation ( $p < 0.05$ ) (Figure 2). After 10 passages in the presence of 1000 ng/L BAC, *E. coli* exhibited lower biofilm formation than the respective bacterium which had been exposed to BAC at 100 ng/L .

No significant difference was observed between bacteria exposed to different BAC concentrations ( $p < 0.05$ ) following 20 passages.