# S5 Table: Strains used in this study

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| **Strains** | **Relevant characteristics or genotypea** | **Injection inoculumb** | **Reference or source** |
| ***Pseudomonas aeruginosa*** |  |  |  |
| LESB58 | Liverpool Epidemic Strain isolate | 1 × 109 | [[31](#_ENREF_31)] |
| LESB58.lux | Apr, Gmr; carrying pUCP::*luxCDABE* | 1 × 109 | [[11](#_ENREF_11)] |
| LESB58/relA+ | Gmr; carrying pBBR5.relA |  | This study |
| LESB58 Δ*relA*Δ*spoT* | Δ*relA*/Δ*spoT* double deletion mutant |  | [17] |
| LESB58 Δ*relA*Δ*spoT* (*relA+*) | Δ*relA*/Δ*spoT* deletion mutant chromosomally complemented with the *relA* gene including its promoter region |  | [17] |
| ***Acinetobacter baumannii*** |  |  |  |
| Ab5075 | Highly virulent clinical wound isolate | 2 × 1010 | [[30](#_ENREF_30)] |
| Ab5075.lux | Tcr; carrying pBBR3::*luxCDABE* | 2 × 1010 | This study |
| ***Enterococcus faecium*** |  |  |  |
| #1-1 | Stool isolate from a human patient prior to bacteremia | 2 × 1010 | BEI Resources |
| #1-1.lux | Spcr; carrying pSL101P16S | 2 × 1010 | This study |
| ***Klebsiella pneumoniae*** |  |  |  |
| KPLN49 | Wild type strain | 2 × 1010 | [[29](#_ENREF_29)] |
| KPLN49.lux | Cmr; carrying pBBR1::*luxCDABE* | 2 × 1010 | This study |
| ***Enterobacter cloacae*** |  |  |  |
| 218R1 | Class C chromosomal β-lactamase overproducing strain | 5 × 109 | [[32](#_ENREF_32)] |
| 218R1.lux | Gmr; carrying pBBR5::*luxCDABE* | 5 × 109 | This study |
| ***Escherichia coli*** |  |  |  |
| E38 (serotype O78:H-) | Human peritoneum isolate | 2 × 109 | BEI Resources |
| E38.lux | Tcr; carrying pBBR3.lux | 2 × 109 | This study |
| ***S. aureus*** |  |  |  |
| LAC USA300 | Community-associated methicillin-resistant (CA-MRSA) strain USA300 | 5 × 107 | [[33](#_ENREF_33)] |
| LAC.lux | Cmr; Apr; Eryr; carrying pRP1195::*luxCDABE* | 5 × 107 | [[45](#_ENREF_45)] |

a Antibiotic resistance: Apr, ampicillin; Cmr, chloramphenicol; Gmr, gentamicin; Tcr, tetracycline; Kmr, kanamycin; Spcr, spectinomycin; Eryr, erythromycin.

b CFU/ml

**References**

45. Plaut RD, Mocca CP, Prabhakara R, Merkel TJ, Stibitz S. Stably luminescent *Staphylococcus aureus* clinical strains for use in bioluminescent imaging. PLoS One. 2013;8(3):e59232.