

Supplementary Table S1. Specific oligonucleotides used in this study

| Gene | Sequence (5'-3') | Amplicon size | Reference |
|------------------|--|---------------|-----------|
| <i>chuA</i> | F: atggtagcggacgaaccaac R: tgccgccagtagcaaaagaca | 288bp | |
| <i>yjaA</i> | F: caaacgtgaagtgtcaggag R: aatgcgttctcaacctgtg | 211bp | |
| <i>TspE4. C2</i> | F: cactattcgtaaggatcatcc R: agtttatcgctgcgggtcgc | 152bp | |
| <i>arpA</i> | F: aacgctattcgccagcttgc R: tctcccataccgtacgcta | 400bp | [37] |
| <i>arpA</i> | F: gattccatcttgtcaaaatatgcc R: gaaaagaaaaagaattccaagag | 301bp | |
| <i>trpA</i> | F: gaaaagaaaaagaattccaagag R: agttttatgccagtgcgag | 219bp | |
| <i>trpA</i> | F: cggcgataaagacatcttcac R: gcaacgcggcctggcggaag | 489bp | |
| <i>ybbW</i> | F: gtgattggcaaatctggccg R: catactggcaatcagtagcc | 667bp | [38,39] |
| <i>bfpA</i> | F: aatggtgcttgcgcttgctgc R: gccgctttatccaacctggta | 326bp | [40] |
| <i>eaeA</i> | F: caggctcgtgtgtctgctaaa R: tcagcgtggttgatcaacct | 570bp | [41] |
| pEAF | F: cagggtaaaagaaagatgata R: tatggggaccatgtattatca | 399bp | [42] |
| <i>stx1</i> | F: tttagcatagacttctcgac R: cacatataaattatttcgctc | 227bp | [43] |
| <i>stx2</i> | F: cccagtcacgacgttgta R: tatactatcgtgcctttcca | 460bp | [44] |
| <i>elt</i> | F: ggcgacagattataccgtgc R: cggctcttatattccctgtt | 450bp | [45] |
| <i>estI</i> | F: ttaatagcacccggtacaagcagg R: cttgactcttcaaaagagaaaattac | 93bp | [46] |
| <i>staII</i> | F: ttgtctttttcacctttccc R: acaagcaggattacaacaca | 93bp | [44] |
| <i>daaE</i> | F: tgactgtgaccgaagagtgc R: ttagttcgtccagtaaccccc | 380bp | [47] |
| pCVD432 | F: ctggcgaaagactgtatcat R: caatgtatagaaatcgctgtt | 630bp | [44] |
| <i>iaI</i> | F: ctggatggtatggtgagg R: ggaggccaacaattatttcc | 320bp | [44] |
| CTX-M1&8 | F: tgtgcagyaccagtaargykatg | 583bp | [50] |

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|----------|--|-------|
| CTX-M2 | R:tarrtsaccagaayvagcggc F:cgagtggcagtagcagtaagg | 540bp |
| CTX-M9 | R:cgatatcggttggtggtgc F:atggtgacaaagagagtcaa | 747bp |
| CTX-M151 | R:aatatcattggtggtgccgtag F:gcggccatgataggtacg | 786bp |
| TEM | R:aaagtaagtcacaataaccagcg F:caacatttcgtgtcgccc | 844bp |
| SHV | R:gcttaatcagtgaggcacc F:tattatctccctgtagcca | 783bp |
| | R:cgctctgctttgttattc | |
