Table S1. Multiplex PCR primers for amplification of β-lactamase genes in a 33-plex PCR

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Primer name | Sequence 5’-3’ | Length (bp) | Tm (°C) | Product size (bp) |
| ACT-1-F | CTGAGCTGACAGGCAAG | 17 | 53.5 | 541 |
| ACT-1-R | AGCATTTCCCAGCCTAAC | 18 | 55.3 |
| CMY-1-F | CCCTTGATGGAGCAGAC | 17 | 54.7 | 430 |
| CMY-1-R | TCGAGCCGGTCTTGT | 15 | 54.0 |
| CMY-2-F | GCCTACCGCTGCAGAT | 16 | 55.7 | 682 |
| CMY-2-R | CTTTTGTTTGCCAGCATC | 18 | 55.3 |
| CTX-M-1-F | CGATAACGTGGCGATG | 16 | 55.2 | 315 |
| CTX-M-1-R | GTTTTATCCCCCACAACC | 18 | 55.0 |
| CTX-M-2-F | AGTGACGGCGTTTGC | 15 | 54.7 | 362 |
| CTX-M-2-R | GCTCCGGTTGGGTAAA | 16 | 55.3 |
| CTX-M-8-F | AGTGACGGCGTTTGC | 15 | 54.7 | 389 |
| CTX-M-8-R | CAGCCGCGAGTACG | 14 | 53.6 |
| CTX-M-9-F | ATCGGCGATGAGACG | 15 | 54.5 | 289 |
| CTX-M-9-R | GCCAGATCACCGCAAT | 16 | 56.3 |
| CTX-M-25-F | GCGCTACAGTACAGCGATA | 19 | 55.3 | 368 |
| CTX-M-25-R | ACCGCGATATCATTCGT | 17 | 54.8 |
| DHA-1-F | CGGAGCTGGCTCTGC | 15 | 57.5 | 722 |
| DHA-1-R | CGCCACCTGTTTTTCC | 16 | 55.8 |
| FOX-1-F | GGATCTGCTGAAGTTTACC | 19 | 52.2 | 279 |
| FOX-1-R | CCAAAGCCGCCAGT | 14 | 54.6 |
| GES-1-F | GCTGCAATGACGCAGTAT | 18 | 55.8 | 220 |
| GES-1-R | CGTCTCCCGTTTGGTT | 16 | 55.2 |
| IMI-1-F | TATATCGGTGGTCCTGAGG | 19 | 55.9 | 403 |
| IMI-1-R | CCTCATGCTTGGCTTCT | 17 | 54.7 |
| IMP-1-F | TGAATTAACAAATGAACTGCTT | 22 | 54.4 | 296 |
| IMP-1-R | TGTGACTTGGAACAACCAG | 19 | 55.4 |
| IMP-24-F | AGATAACGTAGTGGTTTGGTTAC | 23 | 54.3 | 213 |
| IMP-24-R | TGTTCCCATGTACGTTTCA | 19 | 55.8 |
| KPC-1-F | TTGCTGCCGCTGTG | 14 | 55.3 | 600 |
| KPC-1-R | CCTCGCTGTGCTTGTC | 16 | 54.3 |
| MIR-1-F | GCGCAGGCCATTC | 13 | 53.0 | 1014 |
| MIR-1-R | CGCGTCGAGGATACG | 15 | 55.4 |
| NDM-1-F | CGCTCAAGGTATTTTACCC | 19 | 54.9 | 218 |
| NDM-1-R | GGAATGGCTCATCACG | 16 | 53.8 |
| OXA-1-F | TTTTCTGTTGTTTGGGTTTC | 20 | 55.3 | 421 |
| OXA-1-R | AATTCGACCCCAAGTTTC | 18 | 54.9 |
| OXA-2-F | GGATCGTGCCATGTTG | 16 | 54.7 | 530 |
| OXA-2-R | CAGTCGGCCACTCAAC | 16 | 53.9 |
| OXA-23-F | GCTTGGGAAAAAGACATGA | 19 | 56.2 | 403 |
| OXA-23-R | ATGCAAAAGCGACAATTT | 18 | 54.3 |

**Table S1** continued

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| OXA-24-F | GATTTTCAAATGGGATGGTA | 20 | 54.9 | 494 |
| OXA-24-R | AAGTAATTTCATTACGAATAGAACC | 25 | 54.5 |
| OXA-48-F | TCGATTATGGTAATGAGGACAT | 21 | 55.6 | 311 |
| OXA-48-R | ATCCGATGTGGGCATA | 16 | 53.6 |
| OXA-51-F | CTCGTCGTATTGGACTTGA | 19 | 54.6 | 338 |
| OXA-51-R | GTTAAGGGAGAACGCTACAA | 20 | 54.7 |
| OXA-58-F | GCTGTAGACCCGCAAGT | 17 | 54.6 | 151 |
| OXA-58-R | CACCCAACTTATCTAGCACAT | 21 | 54.4 |
| PER-1-F | AGGGCTAAGGTTTTACAGAATAC | 23 | 55.2 | 466 |
| PER-1-R | CATTAGTGGCCGCAGT | 16 | 53.7 |
| RTG-4-F | ATGCTGAAACTGAATTAGGC | 20 | 54.6 | 416 |
| RTG-4-R | CACCGCTTCGTTAAGTTC | 18 | 54.4 |
| SFO-1-F | CGATAAGCGTGACACTACCT | 20 | 55.5 | 338 |
| SFO-1-R | GCCCTTCGGTGACAAT | 16 | 55.0 |
| SHV-1-F | ATGCCGGTGACGAAC | 15 | 54.1 | 523 |
| SHV-1-R | ACAATGCGCTCTGCTTT | 17 | 55.4 |
| SME-1-F | AACTGGAACTTAACACTGCAA | 21 | 55.1 | 257 |
| SME-1-R | CCAAATGACGGCATAATC | 18 | 54.8 |
| TEM-1-F | GATCGGAGGACCGAAG | 16 | 54.6 | 244 |
| TEM-1-R | GCGCAGAAGTGGTCCT | 16 | 55.5 |
| VEB-1-F | ATTAATAACGACTTCCATTTCC | 22 | 54.2 | 725 |
| VEB-1-R | TTATTCAAATAGTAATTCCACGTTAT | 26 | 54.9 |
| VIM-1-F | CATCACCGTCGACACG | 16 | 56.0 | 381 |
| VIM-1-R | GATTTTTGTGTGCTTTGACA | 20 | 54.7 |
| VIM-2-F | CATCACCGTCGACACG | 16 | 56.0 | 313 |
| VIM-2-R | CCCGGAATGACGAACT | 16 | 55.1 |