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  |