

TABLE S1 PCR primers used for detection and sequencing of CTX-M, CMY, AmpC, TEM, and SHV type  $\beta$ -lactamases

Target genes	Forward primer (sequence 5' → 3')	Reverse primer (sequence 5' → 3')	Sequence position		PCR product (bp)
CTX-M Group 1 <sup>a</sup>	GCGTGATACCACTTCACCTC	TGAAGTAAGTGACCAGAATC	540–559	780–779	260
CTX-M Group 2 <sup>a</sup>	TGATACCACCACGCCGCTC	TATTGCATCAGAAACCGTGGG	543–561	863–883	341
CTX-M Groups 8 and 25/26 <sup>a</sup>	CAATCTGACGTTGGGCAATG	ATAACCGTCGGTGACAATT	582–601	855–873	207
CTX-M Group 9 <sup>a</sup>	ATCAAGCCTGCCGATCTGGTTA	GTAAGCTGACGCAACGTCTGC	298–319	570–590	293
CTX-M-1 <sup>b</sup>	GACTATTTCATGTTGTTGTTATTTT	TTACAAACCGTTGGTGACG			923
CTX-M-2 <sup>c</sup>	ATGATGACTCAGAGCATTCTG	TCAGAAACCGTGGGTTACGA	1–20	876–857	876
CTX-M-9 <sup>c</sup>	ATGGTGACAAAGAGAGTGAACGG	TCACAGCCCTTCGGCGATGATTCT	132–155	1007–984	876
MOX-1, MOX-2, CMY-1, CMY-8 to CMY-11 <sup>d</sup>	GCTGCTCAAGGAGCACAGGAT	CACATTGACATAGGTGTGGTGC	358–378	877–856	520
LAT-1 to LAT-4, CMY-2 to CMY-7, BIL-1 <sup>d</sup>	TGGCCAGAACTGACAGGCCAAA	TTTCTCCTGAACGTGGCTGGC	478–498	939–919	462
DHA-1, DHA-2 <sup>d</sup>	AACTTTCACAGGTGTGCTGGGT	CCGTACGCATACTGGCTTTGC	1244–1265	1648–1628	405
ACC <sup>d</sup>	AACAGCCTCAGCAGCCGGTTA	TTCGCCGAATCATCCCTAGC	861–881	1206–1186	346
MIR-1T, ACT-1 <sup>d</sup>	TCGGTAAAGCCGATGTTGCGG	CTTCCACTGCGCGTCCAGTT	1115–1135	1416–1396	302
FOX-1 to FOX-5b <sup>d</sup>	AACATGGGGTATCAGGGAGATG	CAAAGCGCGTAACCGGATTGG	1475–1496	1664–1644	190
CMY-1 <sup>c</sup>	ATGCAACAACGACAATCCATCCTG	TCAACCGGCCAACTGCGCCAGGAT	333–356	1481–1458	1149
CMY-2 <sup>c</sup>	ATGATGAAAAAATCGTTATGCT	TTATTGCAGCTTTTCAAGAATGCG	1924–1945	3069–3046	1146
<i>bla</i> TEM <sup>c</sup>	ATGAGTATTCAACATTTTCG	TTACCAATGCCTAATCAGTG	215–234	1075–1066	861
<i>bla</i> SHV <sup>c</sup>	ATGCGTTATATTCGCCCTGTG	TTAGCGTTGCCAGTGCTCGA	6–25	866–847	861
<i>adk</i> <sup>e</sup>	TCATCATCTGCACTTCCGC	CCAGATCAGCGCAACTTCA	6261–6280	7026–7007	766
<i>fumC</i> <sup>e</sup>	TCACAGGTCGCCAGCGCTTC	TCCCGGCAGATAAGCTGTGG	3798–3817	4566–4547	769
<i>gyrB</i> <sup>e</sup>	TCGGCGACACGGATGACGGC	GTCCATGTAGGCGTTCAGGG	8044–8063	7268–7249	815
<i>icd</i> <sup>e</sup>	ATGGAAGTAAAGTAGTTGTTCCGGCACA	GGACGCAGCAGGATCTGTT	4346–4374	5223–5205	878
<i>mdh</i> <sup>e</sup>	AGCGCTTCTGTTCAAATGC	CAGGTTTCAGAACTCTCTCTGT	1416–1435	2214–2194	799
<i>purA</i> <sup>e</sup>	CGCGCTGATGAAAGAGATGA	CATACGGTAAGCCACGCAGA	2943–2962	3759–3740	817
<i>recA</i> <sup>e</sup>	CGCATTGCTTTACCCTGACC	TCGTGCAAATCTACGGACCGGA	0874–0894	1607–1586	734

References: <sup>a</sup> Xu et al., 2007; <sup>b</sup> Mena et al., 2006; <sup>c</sup> Kojima et al., 2005; <sup>d</sup> Pérez-Pérez and Hanson, 2002; <sup>e</sup> (<http://mlst.ucc.ie/mlst/dbs/Ecoli>)