

Supplementary Materials Table S1. Real-Time PCR primers for ESBL profile determination

Target gene	Primer sequence (5'→3')	
<i>bla_{TEM}</i>	Forward	GCATCTTACGGATGGCATGA
	Reverse	GTCTCCGATCGTTGTCAGAA
	Probe	FAM-CAGTGCTGCCATAACCATGAGTGA-BHQ-1
<i>bla_{SHV}</i>	Forward	TCCCATGATGAGCACCTTTAAA
	Reverse	TCCTGCTGGCGATAGTGGAT
	Probe	Cy5-TGCCGGTGACGAACAGCTGGAG-BBQ-650
<i>bla_{CTXM_A}</i>	Forward	CGGGCRATGGCGCARAC
	Reverse	TGCRCCGGTSGTATTGCC
	Probe	FAM-CCARCGGGCGCAGYTGGTGAC-BHQ1
<i>bla_{CTXM_B}</i>	Forward	ACCGAGCCSACGCTCAA
	Reverse	CCGCTGCCGGTTTTATC
	Probe	Yakima Yellow- CCCGCGYGATACCACCACGC-BHQ1
<i>bla_{CMY}</i>	Forward	GGCAAACAGTGGCAGGGTAT
	Reverse	AATGCGGCTTTATCCCTAACG
	Probe	ROX-CCTACCGCTGCAGATCCCCGATG-BHQ-2

Supplementary Materials Table S2. Target ARGs detected, primer pairs and annealing temperature used

Antibiotic	Target gene	Primer sequence (5'→3')	Amplicon size (bp)	Annealing temperature (°C)	References
Tetracyclines	<i>tet(A)</i>	GCTACATCCTGCTTGCCTTC CATAGATCGCCGTGAAGAGG	210	60	[19]
	<i>tet(B)</i>	TTGGTTAGGGGCAAGTTTGT GTAATGGGCCAATAACACCG	659	60	
Sulphonamides	<i>sul1</i>	TCACCGAGGACTCCTTCTTC AATATCGGGATAGAGCGCAG	316	50	[20]
	<i>sul2</i>	TCCGGTGGAGGCCGGTATCTGG CGGGAATGCCATCTGCCTTGAG	191	58	[21]
Fluoroquinolones	<i>gyrA</i>	AAATCTGCCCCTGTCGTTGGT GCCATACCTACGGCGATACC	344	60	[22]
	<i>parC</i>	CTGAATGCCAGCGCCAAATT GCGAACGATTTTCGGATCGTC	188	60	
Class 1 integron	<i>int1</i>	GGCTTCGTGATGCCTGCTT CATTCCTGGCCGTGGTTCT	148	55	[19]