

Table S1: Primers for profiling antimicrobial resistance determinants.

Antimicrobial family	Primer	Primer sequence	Amplicon size	Reference
Sulphonamides	<i>sull</i>	F:TTCGGCATTCTGAATCTCAC R:ATGATCTAACCCCTCGGTCTC	822	Initial denaturation at 94°C for 5 min, followed by 1 min of denaturation at 94°C, 1 min of annealing at 55°C, 5 min of extension at 72°C for a total of 35 cycles and 5min of final extension at 72°C.
	<i>Sul2</i>	F: CGGCATCGTCAACATAACC R: GTGTGCGGATGAAGTCAG	625	Initial denaturation for 5 min at 94°C, followed by 30 cycles of denaturation at 94°C for 30 s, annealing at 50°C for 30 s and extension at 72°C for 1.5 min and final extension at 72°C for 5 min.
Beta-lactams	<i>ampC</i>	F:TTCTATCAAMACTGGCARCC R:CCYTTTATGTACCCAYGA	550	Initial denaturation at 94°C for 4 min followed by 30 cycles: denaturation at 94°C for 45s, annealing at 60°C for 45s and extension at 72°C for 45s and final extension for 7 min at 72°C.
	<i>blaTEM</i>	F:TTTCGTGTCGCCCTATTCC R:CCGGCTCCAGATTATCAGC	690	Initial denaturation at 94°C for 5 min followed by 30 cycles of denaturation (94°C for 30 s), annealing (60°C for 30 s), extension (72°C for 90 s) and final extension at 72°C for 5 min.
	<i>Blaz</i>	F:ACT TCA ACA CCT GCT GCT TTC R:TGACCACTTTATCAGCAACC	490	Initial denaturation at 94°C for 5 min followed by 30 cycles of denaturation (94°C for 30 s), annealing

				(60°C for 30 s), extension (72°C for 90 s) and final extension at 72°C for 5 min.
Tetracyclines	<i>tetA</i>	F:GCTACATCCTGCTTGCCTC R:CATAGATGCCGTGAAGAGG	201	5 min initial denaturation at 94°C followed by 35 cycles of denaturation at 94°C for 1min, annealing at 55°C for 1min and extension at 72°C for 1.5 min and final extension at 72°C for 5 min. <i>Ng et al. (2001)</i>
	<i>tetB</i>	F: TTGGTTAGGGGCAAGTTTG R:GTAATGGGCCATAACACCG	359	5 min initial denaturation at 94°C followed by 35 cycles of denaturation at 94°C for 1min, annealing at 55°C for 1min and extension at 72°C for 1.5 min and final extension at 72°C for 5 min. <i>Ng et al. (2001)</i>
	<i>tetC</i>	F:CTTGAGAGCCTCAACCCAG R:ATGGTCGTCATCTACCTGCC	418	5 min initial denaturation at 94°C followed by 35 cycles of denaturation at 94°C for 1min, annealing at 55°C for 1min and extension at 72°C for 1.5 min and final extension at 72°C for 5 min. <i>Ng et al. (2001)</i>
	<i>tetD</i>	F:AAACCATTACGGCATTCTGC R:GACCGGATACACCATCCATC	300	5 min initial denaturation at 94°C followed by 35 cycles of denaturation at 94°C for 1min, annealing at 55°C for 1min and extension at 72°C for 1.5 min and final extension at 72°C for 5 min. <i>Ng et al. (2001)</i>
	<i>tetK</i>	F:GTAGCGACAATAGGTAATAGT R:GTAGTGACAATAAACCTCCTA	460	5 min initial denaturation at 94°C followed by 35 cycles of denaturation at 94°C for 1min, annealing at 55°C for 1min and extension at 72°C for 1.5 min and final extension at 72°C for 5 min. <i>Strommenger et al. (2003)</i>

	<i>tetM</i>	F:AGTGGAGCGATTACAGAA R:CATATGTCCTGGCGTGTCTA	158	5 min initial denaturation at 94°C followed by 35 cycles of denaturation at 94°C for 1min, annealing at 55°C for 1min and extension at 72°C for 1.5 min and final extension at 72°C for 5 min.	Stommenger <i>et al.</i> (2003)
Phenicols	<i>cmlA1</i>	F:CACCAATCATGACCAAG R:GGCATCACTCGGCATGGACATG	115	Initial denaturation at 94°C for 5 min followed by 30 cycles of denaturation at 94°C for 30 s, annealing at 50°C for 30 s, and extension at 72°C For 1.5 min and final extension at 72°C for 5 min.	Post and Hall (2009)
	<i>catI</i>	F:AGTTGCTCAATGTACCTATAACC R:TTGTAATTCAATTAAAGCATTCTGCC	320	Initial denaturation for 5 min at 94°C, followed by 30 cycles of denaturation at 94°C for 30 s, annealing at 50°C for 30 s and 72°C for 1.5 min and final incubation at 72°C for 5 min.	Maynard <i>et al.</i> (2004)
	<i>catII</i>	F:ACACTTGCCCTTATCGTC R:TGAAGGCCATCACACTGC	543	5 min at 94°C, followed by 30 cycles of 94°C for 30 s, 50°C for 30 s and 72°C for 1.5 min and final incubation at 72°C for 5 min.	Maynard <i>et al.</i> (2004)
Aminoglycosides	<i>strA</i>	F:CTTGGTGATAACGGCAATT R:CCAATCGCAGATAGAAGGC	348	94°C for 4 min of initial denaturation, followed by 30 cycles of denaturation at 94°C for 45s, annealing for 45s at 50°C, extension at 72°C for 45s and final extension for 7min at 72°C.	Velusamy <i>et al.</i> (2007)
	<i>aadA</i>	F:GTGGATGGCGGGCTGAAGCC R:AATGCCAGTCGGCAGCG	525	Initial denaturation at 94°C for 4 min followed by 30 cycles of denaturation at 94°C for 45s, annealing at 50°C for 45 s and extension at 72°C for 45s and final extension for 7 min at 72°C	Velusamy <i>et al.</i> (2007)

<i>aac(3)-IIa</i> (<i>aacC2</i>) <i>a</i>	F:CGGAAGGCAATAACGGAG R:TCGAACAGGTAGCACTGAG	428	5 min initial denaturation at 94°C, followed by 30 cycles of denaturation at 94°C for 30 s, annealing at 50°C for 30 s and extension at 72°C for 1.5 min and final extension at 72°C for 5 min	Maynard <i>et al.</i> (2004)
<i>aph(3)-Ia</i> (<i>aphA1</i>) <i>a</i>	F:ATGGGCTCGCGATAATGTC R:CTCACCGAGGCAGTTCCAT	600	5 min initial denaturation at 94°C, followed by 30 cycles of denaturation at 94°C for 30 s, annealing at 50°C for 30 s and extension at 72°C for 1.5 min and final extension at 72°C for 5 min	Maynard et al. (2004)
<i>aph(3)-IIa</i> (<i>aphA2</i>) <i>a</i>	F:GAACAAGATGGATTGCACGC R:GCTCTTCAGCAATATCACGG	510	5 min initial denaturation at 94°C, followed by 30 cycles of denaturation at 94°C for 30 s, annealing at 50°C for 30 s and extension at 72°C for 1.5 min and final extension at 72°C for 5 min	Maynard et al. (2004)

PCR reaction mixture (25µl reaction volume):

Component	Volume
PCR Master Mix, 2X	12.5µl
Forward primer, 10µM	0.5µl
Reverse primer, 10µM	0.5µl
DNA template	2.5µl
Nuclease-Free Water	9µl

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