

**Table S1:** Primers for profiling antimicrobial resistance determinants.

Antimicrobial family	Primer	Primer sequence	Amplicon size	Reference
Sulphonamides	<i>sul1</i>	F:TTCGGCATTCTGAATCTCAC R:ATGATCTAACCCTCGGTCTC	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. Maynard <i>et al.</i> (2004)
	<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. Falbo <i>et al.</i> (1999)
Beta-lactams	<i>ampC</i>	F:TTCTATCAAMACTGGCARCC R:CCYTTTTATGTACCCAYGA	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. Velusamy <i>et al.</i> (2007)
	<i>blaTEM</i>	F:TTTCGTGTCGCCCTTATTCC R:CCGGCTCCAGATTTATCAGC	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. Jannine <i>et al.</i> (2010)
	<i>Blaz</i>	F:ACT TCA ACA CCT GCT GCT TTC R:TGACCACTTTTATCAGCAACC	490	Initial denaturation at 94°C for 5 min followed by 30 cycles of denaturation (94oC for 30 s), annealing Baddour <i>et al.</i> (2007)

Tetracyclines				(60°C for 30 s), extension (72°C for 90 s) and final extension at 72°C for 5 min.	
<i>tetA</i>	F:GCTACATCCTGCTTGCCTTC R:CATAGATCGCCGTGAAGAGG	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.	Ng <i>et al.</i> (2001)
<i>tetB</i>	F: TTGGTTAGGGGCAAGTTTTG R:GTAATGGGCCAATAACACCG	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.	Ng <i>et al.</i> (2001)
<i>tetC</i>	F:CTTGAGAGCCTTCAACCCAG 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.	Ng <i>et al.</i> (2001)
<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.	Ng <i>et al.</i> (2001)
<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.	Strommenger <i>et al.</i> (2003)

	<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.	Strommenger <i>et al.</i> (2003)
<b>Phenicol</b>	<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:TTGTAATTCATTAAGCATTCTGCC	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:ACACTTTGCCCCTTTATCGTC R:TGAAAGCCATCACATACTGC	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)
<b>Aminoglycosides</b>	<i>strA</i>	F:CTTGGTGATAACGGCAATTC 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:GTGGATGGCGGCCTGAAGCC 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 <i>et al.</i> (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 <i>et al.</i> (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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