

Supplementary data

Table S1. Primers

Gene/Location	Name	Sequence 5' - 3'	Product (bp)	Annealing temperature	Reference ^a
Beta-lactamase genes					
<i>bla</i> _{TEM-1}	TEM-1-F	gggaattctcggggaaatgtgcgcggaac	998	55	1
	TEM-1-R	gggatccgagtaaactggctgacag			
<i>bla</i> _{VEB-1}	VEB-1-F	atgaaaatcgtaaaaaggatatt	900	46	2
	VEB-1-R	ttattattcaaatagtaattcc			
Aminoglycoside resistance genes					
<i>aac(3)-la</i>	AAC3-IA1	gacataagcctgttcggtt	372	55	3
	AAC3-IA2	ctccgaactcagaccga			
<i>aph(3')-la</i>	APH3-IA1	cgagcatcaaataaaactgc	623	55	3
	APH3-IA2	gcgttgccaatgatgttacag			
<i>ant(3'')-la</i>	ANT3-IA1	tgattgctggttacggtgac	248	55	4
	ANT3-IA2	cgctatgttctctgctttg			
<i>ant(2'')-la</i>	ANT2-IA1	atctgccgctctggat	404	55	3
	ANT2-IA2	cgagcctgtaggact			
<i>strA</i>	STRA-F	aacaggagggcgcatgcct	400	50	this study
	STRA-R	cgccaaggtcgatcagacc			
<i>strB</i>	STRB-F	acgggactcctgcaatcgta	400	50	this study
	STRB-R	cgcagttccgaggcattgc			
Tetracycline resistance genes					
<i>tet(A)</i>	TETA2-F	gtaattctgagcactgtcgc	950	50	5
	TETA2-R	ctgcctggacaacattgctt			
<i>tetR</i>	TETR-F	cctgctcgaacgctgcgctc	400	50	this study
	TETR-R	gaagccatgctggcggagaat			
Chloramphenicol resistance genes					
<i>cmlA1</i>	CLMA-F	aggcgcaacgcttctggtt	595	50	this study
	CMLA-R	cgctacgcatcccgcgata			
<i>catA1</i>	CAT-F	gatgaacctgaaatgccagcg	398	48	this study
	CAT-R	tcacattctgcccgcctgat			
Sulphonamide resistance gene					
<i>sul1</i>	SUL1-F	tgtccgatcagatgcaccgtg	300	55	this study
	SUL1-R	gatgagccggtcggcagcg			
Trimethoprim resistance genes					
<i>dfra1</i>	DFRA1-F	tggcgtgtggttgacgca	352	52	this study
	DFRA1-R	ccttttgccagatttgtaa			
Mercuric ion resistance genes					
<i>merA</i>	MERA-F	cgtgcgtgggtgacgac	780	50	this study
	MERA-R	taagcccagtggaacgaacg			
<i>merP</i>	MERP-F	gatagcccgcgtcctcggtc	252	50	this study
	MERP-R	aaaaactgtttgccgcctcg			
<i>merR</i>	MERR-F	gccggggtcaatgtggagac	400	50	this study
	MERR-R	tagtaccctgactcccc			

Table S1. Primers *continued*

Gene/Location	Name	Sequence 5' - 3'	Product (bp)	Annealing temperature	Reference ^a
Arsenic resistance gene					
<i>arsB</i>	ARSB-F	gcaatcgctacagccagtgcc	850	50	this study
	ARSB-R	ggcattggggattgcgatagg			
Rifampicin resistance gene					
<i>arr-2</i>	ARR-2F	caagcaggtgcaaggaccgtt	344	50	this study
	ARR-2R	caacaggatgccctcccagt			
Class 1 integron					
<i>int1</i>	INT1-F	cagtggacataagcctgttc	160	55	6
	INT1-R	cccgaggcatagactgta			
5'CS	5'CS	ggcatccaagcagcaag	variable	57	7
3'CS	3'CS	aagcagacttgacctga			
Other AbaR1- associated genes					
3'ATPase	3ATP-F	tccggcgaacttcagctca	400	52	this study
	3ATP-R	gcaacccgtaaaacgcgatga			
5'ATPase	5ATP-F	aggcaggcgtgaggccaat	490	52	this study
	5ATP-R	tgctcctgcagattgcca			
<i>uspA</i>	USPA-F	tggaatgaccataagcccaa	401	50	this study
	USPA-R	ggggaacacggcactcagac			
<i>cadA</i>	CADA-F	ctaggcgcctcgctcagga	400	46	this study
	CADA-R	caatcaatgacgacgaatgcga			
<i>tpnA</i>	TPNA-F	acgtcggggctaaatcgcg	358	50	this study
	TPNA-R	ttcactgagcgtcagacccc			
<i>tpnR</i>	TPNR-F	gcttgcatcgacgcgct	400	50	this study
	TPNR-R	catcagggccttgcccgt			
<i>resX</i>	RESX-F	cgcaggtgtcgaacgggac	425	50	this study
	RESX-R	aagtatcgcgctggccatg			
orf5	ORF5-F	ggagcctccgaacgttcgg	461	50	this study
	ORF5-R	tgaaggttgatcccagccg			
<i>tniA</i>	TNIA-R	ttggaaatgaaccgcagcag	variable	55	this study
IS26	IS26-F	tccattcaggcgcataacgc	128	50	this study
	IS26-R	ggccgtacgctggtactgcaa			
<i>sup</i>	SUP-F	gcccgactttgggatcgaca	variable	55	this study

Table S1. Primers *continued*

Gene/Location	Name	Sequence 5' - 3'	Product (bp)	Annealing temperature	Reference ^a
Sequencing primers					
J3 ^b	J3-F	attgccgagctgcacgtgaa	300	55	this study
	J3-R	accattcagggcactcgtgcct			
J5 ^c	J5-F	ttgggaagcaatcaatagtc	310	55	this study
	J5-R	attggcctcacgcctgcct			
<i>cadA</i>	1822-F	ggcgtcaaggattaagcaa			this study
<i>lspA</i>	LSPA-SEQF	aaacaccaatgctgagtcgg			this study
	2266-F	ggctgcatgagtagctggag			this study
	LSPA-NEXT-F	atatcggcctgctggcagc			this study
<i>tpnA</i>	TNPASEQ-R	gcctcatcgtaactttgc			this study
	TNPASEQ-F	tgctgttacgacgggagga			this study
	TPNA2-R	tccggttcgtggacacgtt			this study
<i>topA</i>	TOPSEQ-F	attgcagcctatgccgcag			this study
	TOPSEQ-R	acggcccgccatgccgtgc			this study
	TOPA2-F	cgatgcgctttaggccgg			this study
	TOPASTART-R	tagttccttcggcggcaagtc			this study
	4974-F	cgggtgcgcctgtgtggac			this study
	5347-F	gacgacgccggtatggagga			this study
orfX ^d	HP3208-R	cgtagcatcagggcgatgga			this study
	8099NEW-F	gaaaggcgtgacgtggaagt			this study
<i>sul1</i>	SUL3208-R	cgttaacggacattcgtaa			this study
	SULNEXT-R	cctcgccgggctggcaatcg			this study
<i>bla</i> _{TEM-1}	TEMSEQ-R	ggccggtgcccgctgacgt			this study
Δ <i>tpnA</i>	IS15-F	tggtatcccagcagccagaa			this study
	TPNANEXT-F	agaggcgtgcgatatctca			this study

^a Reference for primers

^b J3, junction between 5'end of the island and 3'end of the ATPase gene

^c J5, junction between 3'end of the island and 5'end of the ATPase gene

^d Gene encoding a hypothetical protein

References

1. Bou G, Martínez-Beltrán J. Cloning, nucleotide sequencing, and analysis of the gene encoding an AmpC β -lactamase in *Acinetobacter baumannii*. *Antimicrob Agents Chemother* 2000; **44**: 28–32.
2. Hujer KM, Hujer AM, Hulten EA *et al*. Analysis of antibiotic resistance genes in multidrug-resistant *Acinetobacter* sp. isolates from military and civilian patients treated at the Walter Reed Army Medical Center. *Antimicrob Agents Chemother* 2006; **50**: 4114–23.
3. Noppe-Leclercq I, Wallet F, Haentjens S *et al*. PCR detection of aminoglycoside resistance genes: a rapid molecular typing method for *Acinetobacter baumannii*. *Res Microbiol* 1999; **150**: 317–22.
4. Clark NC, Olsvik O, Swenson JM *et al*. Detection of a streptomycin/spectinomycin adenyltransferase gene (*aadA*) in *Enterococcus faecalis*. *Antimicrob Agents Chemother* 1999; **43**: 157–160.
5. Guardabassi L, Dijkshoorn L, Collard JM *et al*. Distribution and in-vitro transfer of tetracycline resistance determinants in clinical and aquatic *Acinetobacter* strains. *J Med Microbiol* 2000; **49**: 929–36.
6. Koeleman JGM, Stof J, van der Bijl MW *et al*. Identification of epidemic strains of *Acinetobacter baumannii* by integrase gene PCR. *J Clin Microbiol* 2001; **39**: 8–13.

7. Bissonnette L, Roy PH. Characterization of *In0* of *Pseudomonas aeruginosa* plasmid pVSI, an ancestor of integrons of multiresistance plasmids and transposons of Gram-negative bacteria. *J Bacteriol* 1992; **174**: 1248–57.