

# Supplementary Material

**Table S1.** Primers of antibiotic resistance used for PCR in the study.

Determining Resistance to	Target Gene	Sequences (5'- 3')	Annealing Temperature ( °C)	Amplicon Size (bp)	References
Glycopeptide	<i>vanA</i>	F: GGGAAAACGACAATTGC R: GTACAATGCGGCCGTTA	54	732	Dutka-Malen et al. (1995)
	<i>vanB</i>	F: ATGGGAAGCCGATAGTC R: GATTTCGTTCTCGACC	54	635	Dutka-Malen et al. (1995)
Penicillin	<i>pbp4</i>	F: CAACGAAAGCCTGATGAAATGG R: AATCGCCTTTTTGAGGATCGG	55	1272	Ono et al. (2005)
	<i>pbp5</i>	F: AACAAAATGACAAACGGG R: TATCCTTGTTATCAGGG	54	779	Obeng et al. (2013)
Aminoglycoside	<i>aac(6')-Ie-aph(2'')-Ia</i> (Gentamicin)	F: CAGAGCCTTGGGAAGATGAAG R: CCTCGTGTAATTCATGTTCTGGC	56	348	Vakulenko et al. (2003)
	<i>aph(2'')-Ib</i> (Gentamicin)	F: CTTGGACGCTGAGATATATGAGCAC R: GTTTGTAGCAATTCAGAAACACCCTT	56	867	
	<i>aph(2'')-Ic</i> (Gentamicin)	F: CCACAATGATAATGACTCAGTTCCC R: CCACAGCTTCCGATAGCAAGAG	56	444	
	<i>aph(2'')-Id</i> (Gentamicin)	F: GTGGTTTTTACAGGAATGCCATC R: CCCTCTTCATACCAATCCATATAACC	56	641	
	<i>aph(3')-IIIa</i> (Kanamycin)	F: GGCTAAAATGAGAATATCACCGG R: CTTTAAAAAATCATACAGCTCGCG	56	523	
	<i>ant(4')-Ia</i> (Neomycin, kanamycin, tobramycin and amikacin)	F: CAAACTGCTAAATCGGTAGAAGCC R: GGAAAGTTGACCAGACATTACGAACT	56	294	
	<i>ant(6)-Ia</i> (Streptomycin)	F: CGGGAGAATGGGAGACTTTG R: CTGTGGCTCCACAATCTGAT	55	563	
	<i>aac(6')-Ii</i> (Gentamicin and other aminoglycosides)	F: TGGCCGGAAGAATATGGAGA R: GCATTTGGTAAGACACCTACG	55	410	
Tetracycline	<i>tet(M)</i>	F: GTGGACAAAGGTACAACGAG R: CGGTAAAGTTCGTACACAC	61	406	Malhotra-Kumar et al. (2005)
	<i>tet(L)</i>	F: TGGTGGAATGATAGCCCATT R: CAGGAATGACAGCACGCTAA	61	229	
	<i>tet(O)</i>	F: AACTTAGGCATTCTGGCTCAC R: TCCCACTGTTCCATATCGTCA	61	515	
	<i>tet(K)</i>	F: GATCAATTGTAGCTTTAGGTGAAGG R: TTTTGTGATTACCAGGTACCATT	61	155	

Macrolide	<i>erm</i> (A)	F: CCCGAAAAATACGCAAATTTTCAT R: CCCTGTTTACCCATTTATAAACG	61	590	Malhotra-Kumar et al. (2005)
	<i>erm</i> (B)	F: TGGTATTCCAAATGCGTAATG R: CTGTGGTATGGCGGGTAAGT	61	745	Malhotra-Kumar et al. (2005)
	<i>mef</i> (A/E)	F: CAATATGGGCAGGGCAAG R: AAGCTGTTCCAATGCTACGC	61	317	Malhotra-Kumar et al. (2005)
	<i>msr</i> (A/B)	F: GCAAATGGTGTAGGTAAGACAAC R: ATCATGTGATGTAAACAAAAT	55	399	Sutcliffe et al. (1996)
	<i>msr</i> (C)	F: TATAACAAACCTGCAAGTTC R: CTTCAATTAGTCGATCCATA	52	410	McDermott et al. (2005)
Lincosamide	<i>linB</i>	F: CCTACCTATTGTTTGTGGAA R: ATAACGTTACTCTCCTATTC	50	925	Bozdogan et al. (1999)
Streptogramin	<i>vatE</i>	F: ACTATACCTGACGCAAATGC R: GGTTCAAATCTTGGTCCG	52	511	Soltani et al. (2000)
	<i>vatD</i>	F: GCTCAATAGGACCAGGTGTA R: TCCAGCTAACATGTATGGCG	55	271	Soltani et al. (2000)
Chloramphenicol	<i>cat</i>	F: TAAGGTTATTGGGATAAGTTA R: GCATGRTAACCATCACAWAC	54	340	Hummel et al. (2007)
<i>Int-Tn</i>	(Tn916/Tn1545)	F: GCGTGATTGTATCTCACT R: GACGCTCCTGTTGCTTCT	50	1028	Doherty et al. (2000)

## References

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**Table S2.** Target genes and primers used in this study.

Genes	Encoded Virulence Factor	Primer Sequence 5'–3'	Annealing Temperature	Amplicon length (bp)	Reference
<i>asa1</i>	aggregation substance	F: GCACGCTATTACGAACATGA R: TAAGAAAGAACATCACCACGA	56	375	Vankerckhoven et al. (2004)
<i>esp</i>	enterococcal surface protein	F: AGATTTTCATCTTTGATTCTTGG R: AATTGATTCTTTAGCATCTGG	56	510	Vankerckhoven et al. (2004)
<i>efaA<sub>fs</sub></i>	<i>E. faecalis</i> specific endocarditis antigen	F: GACAGACCCTCACGAATA R: AGTTCATCATGCTGTAGTA	51	705	Eaton & Gasson (2001)
<i>efaA<sub>fm</sub></i>	<i>E. faecium</i> specific surface antigen	F: AACAGATCCGCATGAATA R: CATTTTCATCATCTGATAGTA	48	735	Eaton & Gasson (2001)
<i>gelE</i>	gelatinase	F: ACCCCGTATCATTGGTTT R: ACGCATTGCTTTTCCATC	48	419	Lopes et al. (2006)
<i>hyl</i>	hyaluronidase	F: ACAGAAGAGCTGCAGGAAATG R: GACTGACGTCCAAGTTTCCAA	56	276	Vankerckhoven et al. (2004)
<i>cylA</i>	cytolysin activator	F: ACTCGGGGATTGATAGGC R: GCTGCTAAAGCTGCGCTT	56	688	Vankerckhoven et al. (2004)
<i>sgrA</i>	serine–glutamate repeat containing protein A <i>fms2</i> or <i>orf2351</i>	F: AATGAACGGGCAAATGAG R: CTTTTGTTCCTTAGTTGGTATGA	53	671	Fritas et al. (2018)
<i>pstD</i>	enzyme IID subunit of a putative phosphotransferase system	F: TATCAACGCGATCAAAACGA R: CGTTCGCATACAGCTTTTCA	53	241	Fritas et al. (2018)
<i>orf1481</i>	sugar-binding protein encoded by a genomic island (8.5 kb)	F: GTTTATCAACATGCTAGCCCA R: GCCAATGAGTTAGATGTAGCC	55	437	Fritas et al. (2018)
<i>IS16</i>	<i>element IS</i>	F: CATGTTCCACGAACCAGAG R: TCAAAAAGTGGGCTTGGC	55	547	Fritas et al. (2018)

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**Table S3.** Origin, species, phenotypic and genotypic profile of each *Enterococcus* spp. isolates tested.

Strain	Source	Species	Resistance pattern	MIC Ampi	HLSR	HLGR	Phenotypic resistance profiles	Genotypic resistance profiles	Biofilm production	Virulence profile
E244	Stools	<i>E. faecalis</i>	MDR	32	-	+	RD C W N CN S CIP ENR E QD DA OX AMP TE TIG	<i>pbp4 tet(M) erm(B) aph(3')-IIIa cat Int-Tn</i>	MBP	<i>asa1 efaAfs cylA esp</i>
E54	Stools	<i>E. faecalis</i>	MDR	/	+	+	N CN S E QD DA OX TE	<i>pbp4 tet(M) lnuB erm(B) aph(3')-IIIa ant(6')-Ia Int-Tn</i>	SBP	<i>gelE asa1 efaAfs cylA esp</i>
E53	Stools	<i>E. faecalis</i>	MDR	/	+	+	C F W N CN S E QD DA OX TE	<i>pbp4 tet(M) lnuB erm(B) aph(3')-IIIa ant(6')-Ia cat Int-Tn</i>	SBP	<i>asa1 efaAfs cylA esp</i>
E220	Stools	<i>E. faecalis</i>	MDR	/	+	+	RD C LZD W N CN S KF CIP ENR E QD DA OX TE TIG	<i>pbp4 tet(M) lnuB erm(B) aph(3')-IIIa ant(6')-Ia Int-Tn</i>	SBP	<i>asa1 efaAfs cylA esp</i>
E234	Stools	<i>E. faecalis</i>	XDR	/	+	+	RD C LZD W N CN S KF CIP TEC E QD DA OX TE TIG	<i>tet(M) tet(L) erm(B) aph(3')-IIIa cat</i>	WBP	<i>gelE efaAfs</i>
E121	Stools	<i>E. faecalis</i>	MDR	/	+	+	C LZD W N CN S CIP ENR E QD DA OX TE	<i>pbp4 tet(M) tet(L) lnuB erm(B) aph(3')-IIIa ant(6')-Ia cat</i>	SBP	<i>gelE efaAfs</i>
E165	Stools	<i>E. faecalis</i>	MDR	/	-	+	C LZD F W N CN S CIP ENR QD DA TE TIG	<i>tet(M) erm(B) Int-Tn</i>	SBP	<i>asa1 efaAfs cylA esp</i>
E188	Stools	<i>E. faecalis</i>	MDR	/	+	-	RD C LZD W N CN S ENR E QD DA OX TE	<i>pbp4 tet(M) aph(3')-IIIa Int-Tn</i>	MBP	<i>asa1 efaAfs</i>
E232	Stools	<i>E. faecalis</i>	MDR	/	+	+	RD C LZD W N CN S ENR E QD DA OX TE TIG	<i>pbp4 tet(M) lnuB aph(3')-IIIa ant(6')-Ia Int-Tn</i>	SBP	<i>gelE asa1 efaAfs cylA esp</i>
E270	Stools	<i>E. faecalis</i>	MDR	/	+	-	LZD N CN S QD DA OX TE	<i>pbp4 tet(M) aph(3')-IIIa ant(6')-Ia Int-Tn</i>	SBP	<i>gelE asa1 efaAfs cylA esp</i>
E218	Stools	<i>E. faecalis</i>	XDR	/	+	-	RD C LZD W N CN S KF CIP ENR E QD DA OX TE TIG	<i>pbp4 tet(M) lnuB aph(3')-IIIa ant(6')-Ia Int-Tn</i>	SBP	<i>asa1 efaAfs cylA esp</i>
E119	Stools	<i>E. faecalis</i>	MDR	/	+	+	RD C LZD W N CN S CIP ENR E QD DA OX TE TIG	<i>pbp4 tet(M) tet(L) lnuB erm(B) aph(3')-IIIa ant(6')-Ia cat</i>	MBP	<i>gelE efaAfs</i>
E233	Stools	<i>E. faecalis</i>	XDR	128	+	-	RD LZD W N CN S KF CIP QD DA OX AMP TE TIG	<i>pbp4 tet(M) aph(3')-IIIa ant(6')-Ia</i>	SBP	<i>gelE asa1 efaAfs cylA esp</i>
E52	Stools	<i>E. faecalis</i>	MDR	/	+	+	N S QD DA OX TE	<i>pbp4 tet(M) Int-Tn</i>	SBP	<i>gelE efaAfs esp</i>
1079B	UTI	<i>E. faecalis</i>	MDR	/	-	-	RD N CN S KF CIP ENR QD DA OX	<i>pbp4</i>	MBP	<i>gelE efaAfs</i>
654	UTI	<i>E. faecalis</i>	MDR	32	-	-	W S QD DA OX TE	<i>pbp4 tet(M) Int-Tn</i>	SBP	<i>gelE asa1 efaAfs cylA</i>
1091	UTI	<i>E. faecalis</i>	MDR	>256	-	-	RD N CN S KF CIP ENR QD DA OX AMP TE	<i>tet(M)</i>	MBP	<i>gelE efaAfs</i>
793	UTI	<i>E. faecalis</i>	MDR	64	+	-	RD C N S CIP ENR E QD DA OX TE	<i>pbp4 tet(M) tet(L) erm(B) aph(3')-IIIa cat Int-Tn</i>	WBP	<i>gelE asa1 efaAfs</i>
1079	UTI	<i>E. faecalis</i>	MDR	64	-	-	RD N CN S KF CIP ENR QD DA OX AMP	<i>pbp4</i>	SBP	<i>gelE efaAfs</i>

46	UTI	<i>E. faecalis</i>	MDR	8	+	-	C W N CN S KF QD DA OX TE	<i>pbp4 tet(M) cat Int-Tn</i>	SBP	<i>asa1 efaAfs cyla</i>
835C	UTI	<i>E. faecalis</i>	MDR	>256	-	-	N CN S KF CIP ENR E QD DA OX TE	<i>pbp4 tet(M) tet(L) erm(B) Int-Tn</i>	SBP	<i>gelE asa1 efaAfs</i>
568	UTI	<i>E. faecalis</i>	MDR	16	+	-	C W N CN S KF CIP ENR E QD DA OX TE	<i>pbp4 tet(M) tet(L) lnuB erm(B) aph(3')-IIIa ant(6')-Ia cat Int-Tn</i>	SBP	<i>asa1 efaAfs cyla esp</i>
260	UTI	<i>E. faecalis</i>	MDR	>256	+	-	N CN S KF CIP ENR QD DA OX	<i>pbp4</i>	MBP	<i>gelE efaAfs</i>
323	UTI	<i>E. faecalis</i>	MDR	/	-	-	W N CN S E QD DA OX TE	<i>pbp4 tet(M) Int-Tn</i>	SBP	<i>asa1 efaAfs cyla esp</i>
324	UTI	<i>E. faecalis</i>	MDR	/	-	-	W N CN S KF QD DA OX	<i>pbp4</i>	WBP	<i>gelE asa1 efaAfs</i>
320	UTI	<i>E. faecalis</i>	MDR	32	-	-	RD N CN S CIP ENR E QD DA OX	<i>pbp4 erm(B)</i>	MBP	<i>gelE asa1 efaAfs</i>
359	UTI	<i>E. faecalis</i>	MDR	32	-	-	RD W N CN S KF E QD DA OX TE	<i>pbp4 tet(M) Int-Tn</i>	SBP	<i>asa1 efaAfs cyla esp</i>
357B	UTI	<i>E. faecalis</i>	MDR	32	-	-	N CN S KF CIP ENR E QD DA OX AMC AMP TE	<i>pbp4 erm(B)</i>	MBP	<i>gelE asa1 efaAfs</i>
415	UTI	<i>E. faecalis</i>	MDR	16	-	-	W N CN S KF E QD OX AMC AMP TE	<i>pbp4 tet(M) Int-Tn</i>	SBP	<i>asa1 efaAfs cyla esp</i>
447	UTI	<i>E. faecalis</i>	MDR	>256	-	-	F W S KF CIP ENR E QD DA OX AMC AMP TE	<i>pbp4 tet(M) Int-Tn</i>	WBP	<i>asa1 efaAfs cyla esp</i>
E227	Stools	<i>E. faecium</i>	MDR	128	-	-	RD LZD F W N CN S E DA OX AMP	<i>pbp5 tet(M) lnuB erm(B) ) mrs(A/B) mrs(C) aph(3')-IIIa ant(6')-Ia aac(6')-Ii Int-Tn</i>	WBP	<i>asa1 efaAfm cyla esp</i>
E260	Stools	<i>E. faecium</i>	MDR	>256	-	-	F W N S KF CIP ENR QD OX AMP TE	<i>tet(M) mrs(A/B) mrs(C) aph(3')-IIIa ant(6')-Ia aac(6')-Ii Int-Tn</i>	WBP	<i>gelE asa1 efaAfm cyla esp</i>
E169	Stools	<i>E. faecium</i>	MDR	64	-	-	RD C LZD F W N CN S KF CIP ENR QD OX TE TIG	<i>tet(M) mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm IS16</i>
E153	Stools	<i>E. faecium</i>	MDR	64	-	-	RD C LZD F W N S KF CIP ENR E OX AMP TE TIG	<i>tet(M) tet(L) mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm IS16</i>
E251	Stools	<i>E. faecium</i>	MDR	256	-	-	LZD F W N S KF CIP ENR E DA OX AMP	<i>pbp5 mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm sgrA</i>
E236	Stools	<i>E. faecium</i>	MDR	>256	-	-	RD W S KF ENR OX AMP	<i>mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>gelE efaAfm</i>
E239	Stools	<i>E. faecium</i>	XDR	128	-	-	C LZD F W N CN S KF CIP QD OX AMP TE	<i>tet(M) mrs(A/B) mrs(C) aac(6')-Ii Int-Tn</i>	WBP	<i>efaAfm IS16</i>
E160	Stools	<i>E. faecium</i>	XDR	16	-	-	RD C LZD F W N CN S KF CIP ENR QD OX AMP TE	<i>tet(M) mrs(A/B) mrs(C) aac(6')-Ii Int-Tn</i>	WBP	<i>efaAfm</i>
E257	Stools	<i>E. faecium</i>	MDR	128	-	-	LZD N KF CIP ENR QD DA OX AMP TIG	<i>mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm IS16</i>
E177	Stools	<i>E. faecium</i>	XDR	32	-	-	LZD F W N CN S KF CIP ENR TEC OX AMP TE TIG	<i>tet(M) mrs(A/B) mrs(C) aac(6')-Ii Int-Tn</i>	WBP	<i>efaAfm IS16</i>

<b>E99</b>	Stools	<i>E.faecium</i>	MDR	>256	+	-	F W N CN S KF E DA OX AMP TE TIG	<i>tet(M) tet(L) lnuB erm(B) mrs(A/B) mrs(C) aac(6')-Ie-aph(2'')-Ia ant(6')- Ia aac(6')-Ii</i>	WBP	<i>efaAfm IS16</i>
<b>E254</b>	Stools	<i>E.faecium</i>	MDR	>256	+	-	C LZD W N CN S KF CIP ENR E DA OX AMC AMP TE TIG	<i>tet(L) lnuB erm(B) mrs(A/B) mrs(C) mef(A/E) aph(3')-IIIa ant(6')-Ia aac(6')-Ii</i>	WBP	<i>efaAfm sgrA pstD orf1481 IS16</i>
<b>E241</b>	Stools	<i>E.faecium</i>	/	256	-	-	RD N S KF DA OX AMP	<i>pbp5 mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm</i>
<b>E238</b>	Stools	<i>E.faecium</i>	MDR	>256	-	-	C LZD F W N S KF OX AMP TE TIG	<i>mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm</i>
<b>E154</b>	Stools	<i>E.faecium</i>	MDR	64	-	-	RD LZD F N S CIP ENR E DA OX AMP TE	<i>mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm</i>
<b>24A</b>	UTI	<i>E. faecium</i>	MDR	>256	-	+	C N CN S KF CIP ENR E QD DA OX AMC AMP TE	<i>tet(M) tet(L) mrs(A/B) mrs(C) ant(6')-Ia aac(6')-Ii cat Int-Tn</i>	MBP	<i>asa1 efaAfm cylA sgrA pstD orf1481 IS16</i>
<b>1118</b>	UTI	<i>E.faecium</i>	MDR	>256	+	+	W N CN S KF CIP ENR E DA OX AMC AMP TE	<i>erm(B) mrs(A/B) mrs(C) aac(6')-Ie- aph(2'')-Ia aph(3')-IIIa ant(6')-Ia aac(6')-Ii</i>	WBP	<i>efaAfm sgrA pstD orf1481 IS16</i>
<b>399</b>	UTI	<i>E.faecium</i>	MDR	/	-	-	S KF CIP ENR QD DA OX	<i>mrs(A/B) mrs(C) aac(6')-Ii</i>	WBP	<i>efaAfm orf1481</i>
<b>618</b>	UTI	<i>E. gallinarum</i>	MDR	>256	+	+	RD CIP ENR QD DA OX TE	<i>tet(M) erm(B) aph(3')-IIIa cat Int-Tn</i>	MBP	<i>gelE asa1</i>
<b>556B</b>	UTI	<i>E. gallinarum</i>	MDR	<8	-	-	N S CIP ENR E QD DA OX TE	<i>tet(M) Int-Tn</i>	MBP	<i>asa1</i>
<b>1034</b>	UTI	<i>E. gallinarum</i>	MDR	64	+	-	N S KF CIP ENR E QD DA OX AMP TE	<i>tet(M) aph(3')-IIIa ant(6')-Ia Int-Tn</i>	SBP	<i>esp</i>

Legend: Stools = isolate from healthy dog stools; UTI = isolate from sick dog urines; AMPI = Minimum Inhibitory Concentration (MIC) for ampicillin expressed in µg/ml; HLSR = High Level Streptomycin Resistance; HLGR = High Level Gentamicin Resistance; RD = rifampicin; C = chloramphenicol; LZD = linezolid; F = nitrofurantoin; W = trimethoprim; N = neomycin; CN = gentamicin; S = streptomycin; KF = cephalothin; CIP = ciprofloxacin; ENR = enrofloxacin; TEC = teicoplanin; E = erythromycin; QD = quinupristin-dalfopristin; DA = clindamycin; OX = oxacillin; AMC = amoxicillin-clavulanic acid; AMP = ampicillin; TE = tetracycline; TIG = tigecycline; WBP = Weak Biofilm Producer; MBP = Moderate Biofilm Producer; SBP = Strong Biofilm Producer.