

Figure S1: Detection of linezolid resistant enterococci in the Czech Republic from 2009 to 2019. Increasing pattern of linezolid resistant enterococci has been observed in this study: *E. faecium*: 2009/0; 2010/1; 2011/3; 2012/0; 2013/1; 2014/4; 2015/5; 2016/15; 2017/22; 2018/23; 2019/32, *E. faecalis*: 2009/0; 2010/1; 2011/0; 2012/0; 2013/0; 2014/0; 2015/0; 2016/1; 2017/1; 2018/2; 2019/4.

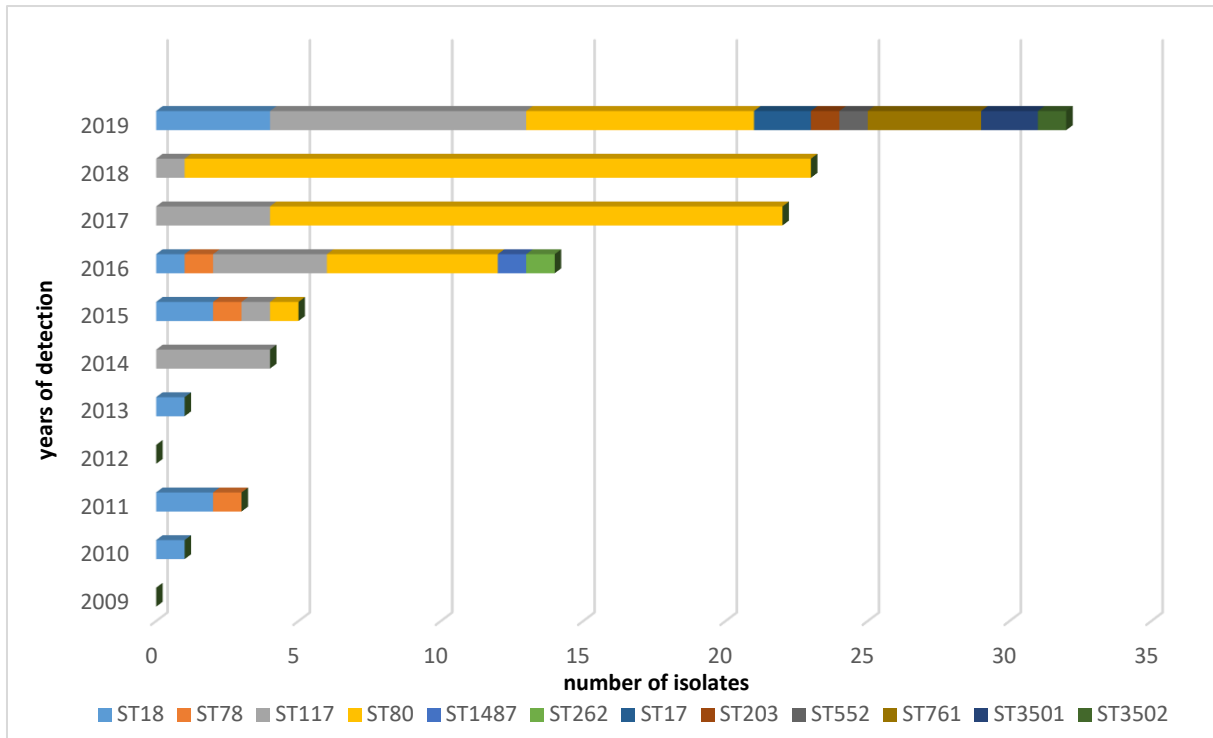


Figure S2: STs occurrence in the group of linezolid resistant *E. faecium* (n=106) strains from 2009 to 2019. STs detected in the study were: ST80 (n=53), ST117 (n=24), ST18 (n=13), ST761 (n=4), ST78 (n=3), ST17 (n=2), ST203 (n=1), ST552 (n=1), ST262 (n=1), ST1487 (n=1), ST3501 (n=2), ST3502 (n=1).

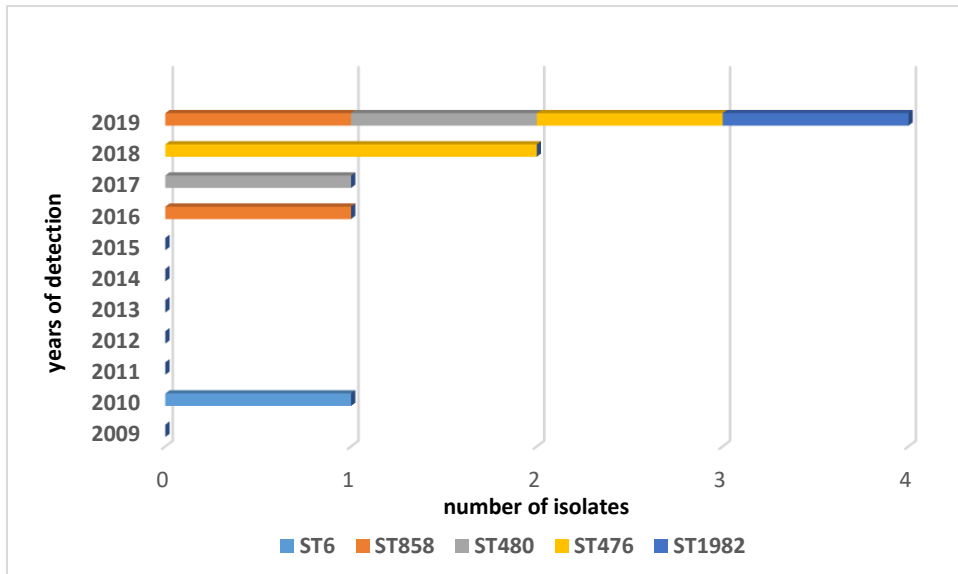


Figure S3: STs occurrence in the group of linezolid resistant *E. faecalis* (n=9) isolates from 2009 to 2019. STs detected in the study were ST6 (n=1), ST476 (n=3), ST480 (n=2), ST858 (n=2), ST1982 (n=1).

Supplementary data

Table S1. Phenotypic and genotypic characteristics of the 115 linezolid-resistant enterococcal isolates examined in the NRL for ATB between 2009 and 2019.

Isolates	Isolation year	Clinical specimen	Sex	Hospital	Age (years)	MIC(mg/L)							mechanism of LNz resistance	van genotype	ST/CC
						AMP	LNz	TEI	VAN	GEN	STR	TGC			
<i>E. faecium</i>															
4 088	2010	swab	F	Brno	43	> 64	>16	0.5	> 32	>256	>1024	0.06	ΔG2576T	vanA, vanB	18/ CC17
9 954	2011	urine	F	Prague	36	> 64	16	>32	> 32	<64	1024	0.06	ΔG2576T	vanA, vanB	78/ CC17
9 996	2011	catheter	M	Plzen	61	> 64	16	>32	> 32	<64	1024	0.06	ΔG2576T	vanA, vanB	18/ CC17
10 002	2011	swab	F	Brno	20	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	18/ CC17
22 839	2013	fistula - swab	F	Plzen	25	> 64	16	>32	> 32	>256	<256	0.06	ΔG2576T	vanA	18/ CC17
25 031	2014	throat swab	M	Plzen	67	> 64	16	< 0.25	> 32	256	>1024	0.125	ΔG2576T	vanB	117/ CC17
25 100	2014	rectal swab	M	Plzen	38	> 64	>16	< 0.25	> 32	256	>1024	0.125	ΔG2576T	vanB	117/ CC17
25 265	2014	urine	F	Ceske Budejovice	69	> 64	16	32	> 32	256	>1024	0.06	ND	vanA	117/ CC17
25 298	2014	rectal swab	M	Plzen	61	> 64	16	16	> 32	256	>1024	<0.03	ΔG2576T	vanA	117/ CC17
28 182	2015	rectal swab	F	Brno	67	> 64	>16	> 32	> 32	>256	>1024	<0.03	ΔG2576T	vanA	18/ CC17
28 601	2015	swab	M	Brno	38	> 64	>16	< 0.25	0.5	>256	>1024	0.06	ΔG2576T	-	117/ CC17
29 050	2015	secrete	M	Brno	66	> 64	16	< 0.25	0.5	>256	<256	0.125	ΔG2576T	-	78/ CC17
29 126	2015	rectal swab	F	Brno	49	> 64	>16	>32	> 32	<64	<256	< 0.03	ΔG2576T	vanA	18/ CC17
32 103	2015	blood	F	Brno	85	> 64	8	32	> 32	>256	>1024	< 0.03	ΔG2576T	vanA	80/ CC17
32 951	2016	swab	M	Brno	76	> 64	>16	32	> 32	>256	>1024	< 0.03	ΔG2576T	vanA	80/ CC17
32 960	2016	secrete	F	Brno	63	> 64	>16	0.5	1	>256	>1024	0.06	ΔG2576T	-	117/ CC17
33 234	2016	throat swab	M	Brno	69	> 64	>16	> 32	> 32	>256	>1024	< 0.03	ΔG2576T	vanA	80/ CC17

33 269	2016	blood	M	Brno	59	> 64	16	< 0.25	0.5	>256	1024	0.06	ΔG2576T	-	117/ CC17
33 992	2016	rectal swab	F	Brno	29	> 64	>16	32	> 32	>256	<256	0.06	ΔG2576T	vanA	18/ CC17
34 237	2016	swab	F	Brno	77	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
34 484	2016	throat swab	unkno wn	Plzen	54	> 64	16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	117/ CC17
34 605	2016	urine	M	Brno	81	> 64	16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
35 041	2016	punctate	M	Brno	52	> 64	>16	< 0.25	1	>256	>1024	< 0.03	ΔG2576T	-	117/ CC17
35 042	2016	rectal swab	M	Brno	40	> 64	8	> 32	> 32	>256	>1024	0.06	cfr	vanA	117/ CC17
35 262	2016	rectal swab	F	Brno	76	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
35 263	2016	urine	M	Brno	82	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
35 548	2016	swab	M	Usti nad Labem	62	> 64	>16	> 32	> 32	>256	>1024	0.06	ND	vanA	1487/ CC17
36 574	2016	blood	M	Prague	59	> 64	8	< 0.25	0.5	<64	>1024	0.06	ΔG2576T	-	78/ CC17
37 310	2016	surgical wound	F	Prague	78	> 64	8	< 0.25	0.5	<64	>1024	0.125	optrA	-	262/ CC17
37 809	2017	swab	M	Brno	73	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
38 243	2017	aspirate	M	Nové Město na Moravě	65	> 64	16	32	> 32	>256	>1024	< 0.03	ΔG2576T	vanA	80/ CC17
39 203	2017	rectal swab	F	Brno	51	> 64	16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
39 403	2017	throat swab	F	Brno	62	> 64	16	32	> 32	>256	<256	0.06	ΔG2576T	vanA	80/ CC17
39 549	2017	rectal swab	M	Brno	18	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
39 821	2017	rectal swab	M	Brno	68	> 64	>16	32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
39 822	2017	rectal swab	M	Brno	71	> 64	>16	32	> 32	>256	>1024	0.065	ΔG2576T	vanA	117/ CC17
39 823	2017	rectal swab	F	Brno	63	> 64	>16	32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
40 238	2017	mouth swab	M	Brno	65	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
40 239	2017	rectal swab	F	Brno	73	> 64	>16	> 32	> 32	< 64	>1024	0.125	ΔG2576T	vanA	80/ CC17
40 536	2017	urine	F	Brno	42	> 64	16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	117/ CC17
40 537	2017	rectal swab	M	Brno	45	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
41 094	2017	rectal swab	F	Brno	40	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	117/ CC17

41 178	2017	blood	M	Prague	47	> 64	>16	< 0.25	1	>256	>1024	0.125	ΔG2576T	-	117/ CC17
41 694	2017	rectal swab	F	Ostrava	71	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
41 942	2017	rectal swab	F	Brno	50	> 64	16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
41 943	2017	swab	M	Brno	68	> 64	16	32	> 32	>256	<256	0.06	ΔG2576T	vanA	80/ CC17
42 042	2017	rectal swab	M	Brno	58	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
42 043	2017	rectal swab	F	Brno	44	> 64	>16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
42 238	2017	rectal swab	M	Brno	64	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
42 239	2017	rectal swab	F	Brno	48	> 64	>16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
42 240	2017	rectal swab	unkno wn	Brno	52	> 64	>16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
42 367	2018	rectal swab	F	Brno	22	> 64	>16	32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
42 368	2018	rectal swab	F	Brno	53	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
42 523	2018	swab	F	Brno	68	> 64	>16	32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
42 750	2018	catheter	M	Brno	64	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
42 943	2018	stool sample	F	Brno	58	> 64	>16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
42 944	2018	swab	M	Brno	64	> 64	>16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
43 190	2018	secrete	M	Brno	64	> 64	>16	0.5	1	>256	<256	0.125	ΔG2576T	-	80/ CC17
43 303	2018	rectal swab	M	Brno	63	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
43 412	2018	ascites	F	Brno	72	> 64	>16	32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
43 651	2018	mouth swab	F	Brno	81	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
43 714	2018	swab	M	Brno	79	> 64	>16	32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
44 267	2018	urine	M	Ostrava	83	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
44 467	2018	swab	M	Brno	72	> 64	16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
45 511	2018	rectal swab	M	Brno	63	> 64	16	> 32	> 32	>256	<256	0.125	ΔG2576T	vanA	80/ CC17
45 512	2018	mouth swab	M	Brno	63	> 64	>16	0.5	0.5	>256	>1024	0.06	ΔG2576T	-	80/ CC17
45 690	2018	rectal swab	F	Brno	64	> 64	>16	> 32	> 32	>256	<256	0.125	ΔG2576T	vanA	80/ CC17

45 990	2018	bile	M	Hradec Králové	61	> 64	8	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
46 153	2018	sputum	M	Brno	87	> 64	>16	0.5	1	>256	<256	0.125	ΔG2576T	-	18/ CC17
46 334	2018	sputum	M	Hradec Králové	60	> 64	8	0.5	1	>256	>1024	0.06	ΔG2576T	-	117/CC17
46 347	2018	swab	F	Brno	41	> 64	16	0.5	1	>256	<256	0.125	ΔG2576T	-	18/CC17
46 586	2018	urine	F	Brno	60	> 64	16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
47 053	2018	rectal swab	M	Brno	61	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80/ CC17
47 267	2018	urine	F	Brno	64	> 64	>16	32	> 32	>256	<256	0.06	ΔG2576T	vanA	80/ CC17
48 643	2019	tracheal aspirate	M	Hradec Králové	65	> 64	8	< 0.25	1	<64	>1024	0.125	ΔG2576T	-	117/ CC17
49 053	2019	rectal swab	M	Hradec Králové	64	> 64	8	< 0.25	0.5	<64	<256	0.06	ΔG2576T	-	117/ CC17
49 083	2019	swab	F	Brno	77	> 64	>16	0.5	1	>256	<256	0.125	ΔG2576T	-	18/CC17
49 226	2019	stool sample	F	Brno	69	> 64	>16	> 32	> 32	>256	>1024	0.125	ΔG2576T	vanA	80 CC17
49 642	2019	bronchoalveolar lavage	F	Brno	84	> 64	>16	< 0.25	0.5	>256	<256	0.125	ΔG2576T	-	18/ CC17
49 853	2019	swab	M	Brno	56	> 64	16	< 0.25	1	>256	>1024	0.125	ΔG2576T	-	18/ CC17
50 313	2019	catheter	M	Brno	72	> 64	>16	0.5	1	>256	<256	0.125	ΔG2576T	-	18/ CC17
50 678	2019	blood	M	Brno	77	> 64	>16	> 32	> 32	>256	<256	0.125	ΔG2576T	vanA	3501*/none
50 679	2019	secrete	M	Brno	25	> 64	16	< 0.25	0.5	<64	>1024	0.06	ΔG2576T	-	117/ CC17
50 955	2019	rectal swab	M	Brno	55	> 64	16	> 32	> 32	>256	<256	1	ΔG2576T	vanA	80/ CC17
50 956	2019	rectal swab	M	Brno	71	> 64	16	> 32	> 32	>256	<256	0.06	ΔG2576T	vanA	3501*/none
50 962	2019	aspirate	M	Hradec Králové	60	> 64	8	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
51 138	2019	swab	M	Klatovy	60	> 64	16	> 32	> 32	>256	>1024	0.25	ΔG2576T	vanA	80/ CC17
51 324	2019	blood	M	Plzen	46	> 64	16	> 32	> 32	<64	>1024	0.125	ΔG2576T	vanA	203/ CC17
51 498	2019	throat swab	M	Plzen	86	> 64	16	> 32	0.5	>256	<256	0.125	ΔG2576T	-	552/ CC17
51 702	2019	rectal swab	F	Brno	64	> 64	>16	32	> 32	>256	<256	0.06	ΔG2576T	vanA	117/ CC17
51 703	2019	rectal swab	F	Brno	70	> 64	>16	>32	> 32	>256	<256	0.05	ΔG2576T	vanA	80/ CC17
51 981	2019	rectal swab	M	Brno	82	> 64	>16	32	> 32	<64	<256	0.06	ΔG2576T	vanA	117/ CC17

51 982	2019	abscess swab	M	Brno	80	> 64	16	0.5	0.5	>256	>1024	0.06	ND	-	761/ CC17
52 074	2019	rectal swab	M	Hradec Králové	46	> 64	16	0.5	0.5	<64	>1024	0.125	ΔG2576T	-	117/ CC17
52 155	2019	stool sample	M	Hradec Králové	78	> 64	16	> 32	> 32	>256	>1024	0.06	ΔG2576T	vanA	80/ CC17
52 187	2019	rectal swab	F	Brno	28	> 64	16	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	117/ CC17
52 188	2019	swab	M	Brno	74	> 64	8	32	> 32	>256	>1024	0.06	ΔG2576T	vanA	761/ CC17
52 189	2019	swab	M	Brno	25	> 64	16	< 0.25	1	>256	<256	0.125	ΔG2576T	-	80/ CC17
52 493	2019	rectal swab	M	Brno	41	> 64	>16	> 32	> 32	<64	>1024	0.06	ΔG2576T	vanA, vanB	117/ CC17
52 739	2019	bile	F	Brno	50	> 64	>16	< 0.25	1	<64	<256	0.125	ΔG2576T	-	17/ CC17
52 740	2019	rectal swab	F	Brno	43	> 64	>16	> 32	> 32	>256	<256	0.5	ΔG2576T	vanA	80/ CC17
52 794	2019	unknown	M	Hradec Králové	63	> 64	16	0.5	0.5	>256	>1024	0.06	ΔG2576T	-	761/ CC17
52 949	2019	swab	F	Brno	50	> 64	>16	32	> 32	<64	<256	0.125	ΔG2576T	vanA	117/ CC17
53 213	2019	rectal swab	F	Hradec Králové	78	> 64	8	< 0.25	0.5	>256	1024	0.06	ΔG2576T	-	117/ CC17
54 389	2019	sputum	M	Brno	26	> 64	16	< 0.25	0.5	<64	<64	0.06	ΔG2576T	-	761/ CC17
54 585	2019	rectal swab	M	Prague	50	4	8	< 0.25	0.5	<64	>1024	0.125	optrA	-	3502*/ none
<i>E. faecalis</i>															
4 672	2010	blood	M	Brno	63	<0.5	>16	< 0.25	1	>256	>1024	<0.03	ΔG2576T	-	6/CC2
37 203	2016	urine	M	Prague	43	1	8	< 0.25	1	>256	>1024	0.06	optrA	-	858/none
40 812	2017	swab	M	Brno	66	1	8	< 0.25	1	>256	<256	0.06	optrA	-	480/CC480
46 152	2018	wound swab	F	Brno	49	1	8	< 0.25	1	>256	<256	0.125	optrA	-	476/CC476
48 089	2018	swab	F	Ostrava	69	1	8	< 0.25	1	>256	<256	0.25	optrA	-	476/CC476
49 852	2019	urethral swab	M	Brno	66	1	8	< 0.25	1	>256	>1024	0.125	optrA	-	480/CC480
50 460	2019	wound swab	M	Prague	50	1	8	< 0.25	1	>256	>1024	0.125	optrA	-	858/none
50 875	2019	urethral swab	M	Novy Jicin	44	1	8	< 0.25	1	>256	<256	0.125	optrA	-	476/CC476
54 695	2019	urine	F	Prague	55	1	16	< 0.25	1	>256	<256	0.06	ΔG2576T	-	1982/ none

Abbreviations: MIC, minimal inhibitory concentration; AMP, ampicillin; LNZ, linezolid; TEI, teicoplanin; VAN, vancomycin; GEN, gentamicin; STR, streptomycin; TGC, tigecycline; -, wild type, ND, non-detected mechanism; ST, sequence type; CC, clonal complex; *, novel sequencing type

Table S2. Primers used in the study.

Primer purpose	Amplified gene	Primer pair	Nucleotide Sequence (5'-3')	PCR conditions
PCR to confirm mechanism of linezolid-resistance	<i>cfr</i>	<i>cfr</i> -F	TGAAGTATAAAGCAGGTTGGGAGTCA	94°C for 3 min. 36 cycles of 94°C for 45 seconds, 61°C for 45 seconds, 72°C for 1 min. Final elongation 10 min at 72°C
		<i>cfr</i> -R	ACCATATAATTGACCACAAGCAGC	
	<i>cfr_B</i>	<i>cfr_B</i> -F	AGCTGGTTGGGAGTCATTT	94°C for 3 min. 36 cycles of 94°C for 45 seconds, 51°C for 45 seconds, 72°C for 1 min. Final elongation 10 min at 72°C
		<i>cfr_B</i> -R	TCGCTAATGCTTCTCCCAT	
	<i>poxA</i>	<i>poxA</i> -F	TCAATGCAGAGCAGGAAGCA	94°C for 3 min. 36 cycles of 94°C for 45 seconds, 50°C for 45 seconds, 72°C for 1 min. Final elongation 10 min at 72°C
		<i>poxA</i> -R	GGTGGATTTACCGACACCGT	
	<i>optrA</i>	<i>optrA</i> -F	CAGGTGGTCAGCGAACTAAG	94°C for 3 min. 35 cycles of 94°C for 1 min, 59°C for 45 seconds, 72°C for 2 min. Final elongation 10 min at 72°C
		<i>optrA</i> -R	GCCACACCACCATAAGTGTT	
	L3	<i>rrlC</i> -F	GCGCTTCATTCGTGAATTCAA	94°C for 5 min. 36 cycles of 94°C for 30 seconds, 50°C for 30 seconds, 72°C for 1 min. Final elongation 10 min at 72°C
		<i>rrlC</i> -R	TTCTTTCTGCATCGACACGTACAA	
	L4	<i>rrlD</i> -F	ACGATGCAATCGTAATGCAA	94°C for 3 min. 35 cycles of 94°C for 1 min, 51°C for 45 seconds, 72°C for 2 min. Final elongation 10 min at 72°C
		<i>rrlD</i> -R	TTCAGCAACTTTTTCTGACAA	
	L22	<i>rplV</i> -F	GGACATGCTGCTGACGATA	94°C for 5 min. 36 cycles of 94°C for 30 seconds, 50°C for 30 seconds, 72°C for 1 min. Final elongation 10 min at 72°C
		<i>rplV</i> -R	ACCATTTAGCATCCCAGTCG	
	23S rDNA	23S rDNA-F	GTAACGATTTGGGCACTGTCTG	94°C for 1 min. 33 cycles of 94°C for 30 seconds, 55°C for 30 seconds, 72°C for 7 min. Final elongation 10 min at 72°C
		23S rDNA-F	CGATTAGTATTGGTCCGCTC	
PCR to confirm <i>van</i> gene type	<i>vanA</i>	<i>vanA</i> -F	GGGAAAACGACAATTGC	94°C for 2 min. 31 cycles of 94°C for 1 min, 54°C for 1 min, 72°C for 1 min. Final elongation 10 min at 72°C
		<i>vanA</i> -R	GTACAATGCGGCCGTTA	
	<i>vanB</i>	<i>VanB</i> -F	ATGGGAAGCCGATAGTC	
		<i>VanB</i> -R	GATTCGTTCCCTCGACC	

Table S3. Primers used in the MLST analysis of *E. faecium* and *E. faecalis* isolates.

Amplified gene	Primer pair	Nucleotide Sequence (5'-3')	PCR conditions
<i>E. faecium</i>			
<i>adk</i>	<i>adk-F</i> <i>adk-R</i>	GAACCTCATTTTAATGGGG TGATGTTGATAGCCAGACG	94°C for 15 min. 35 cycles of 94°C for 30s, 50°C for 30s 72°C for 30s. Final elongation 5 min at 72°C
<i>atpA</i>	<i>atpA-F</i> <i>atpA-R</i>	TTCAAATGGCTCATAACGG AGTTCACGATAAGCAACAGC	
<i>ddl</i>	<i>ddl-F</i> <i>ddl-R</i>	GAGACATTGAATATGCCTTATG AAAAAGAAATCGCACCG	
<i>gyd</i>	<i>gyd-F</i> <i>gyd-R</i>	CAAACCTGCTTAGCTCCAATGGC CATTCGTTGTCATACCAAGC	
<i>gdh</i>	<i>gdh-F</i> <i>gdh-R</i>	GGCGCACTAAAAGATATGGT CCAAGATTGGGCAACTTCGTCCCA	
<i>purK</i>	<i>purK-F</i> <i>purK-R</i>	CAGATTGGCACATTGAAAG TTCATTCACATATAGCCCG	
<i>pstS</i>	<i>pstS-F</i> <i>pstS-R</i>	TTGAGCCAAGTCGAAGCTGGAG CGTGATCACGTTCTACTTCC	
<i>E. faecalis</i>			
<i>gdh</i>	<i>gdh-F</i> <i>gdh-R</i>	GGCGCACTAAAAGATATGGT CCAAGATTGGGCAACTTCGTCCCA	94°C for 5 min. 30 cycles of 94°C for 30s, 52°C for 30s 72°C for 1minute. Final elongation 7 min at 72°C
<i>gyd</i>	<i>gyd-F</i> <i>gyd-R</i>	CAAACCTGCTTAGCTCCAATGGC CATTCGTTGTCATACCAAGC	
<i>pstS</i>	<i>pstS-F</i> <i>pstS-R</i>	CGGAACAGGACTTTTCGC ATTTACATCACGTTCTACTTGC	
<i>gki</i>	<i>gki-F</i> <i>gki-R</i>	GATTTTGTGGGAATTGGTATGG ACCATTAAAGCAAAATGATCGC	
<i>aroE</i>	<i>aroE-F</i> <i>aroE-R</i>	TGGAAAACCTTTACGGAGACAGC GTCCTGTCCATTGTTCAAAGC	
<i>xpt</i>	<i>xpt-F</i> <i>xpt-R</i>	AAAATGATGGCCGTGTATTAGG AACGTCACCGTTCCTTCACTTA	
<i>yiql</i>	<i>yiql-F</i> <i>yiql-R</i>	CAGCTTAAGTCAAGTAAGTGCCG GAATATCCCTTCTGCTTGTGCT	