Complementary file

ID	*Spa-type*	MLST	GENDER	AGE	WARD	CULTURE SITE	OXACILLIN	BTC	BKC	CHG	*mecA*	*SCCmec*	*qac*	*smr*	*vanA*	*mec*	*agr*
4	t37	239	Male	58	INT	Lung	Res.	9.7	19	155	+	III	+	+	-	-	I
5	t37	239	Male	66	INT	Wound	Res.	9.7	19	155	+	I	+	-	-	-	I
8	t37	239	Male	34	ICU	Lung	Res.	39	39	310	+	III	+	+	-	-	I
9	t037	239	Male	34	ICU	Lung	Res.	39	39	310	+	III	+	+	-	-	I
27	t037	239	Female	70	ICU	Lung	Res.	19	78	310	+	III	+	-	-	-	I
30	t37	239	Female	14	ICU	Lung	Res.	19	39	310	+	III	-	-	-	-	I
34	t230	45	Female	71	NERO	Lung	Res.	78	78	625	+	I	+	+	-	-	I
42	t37	239	Male	82	ICU	Lung	Res.	19	39	625	+	III	+	-	-	-	I
44	t037	239	Male	83	ICU	Lung	Res.	19	39	625	+	I	+	-	-	-	I
45	t1741	sg	Male	62	ICU	Lung	Res.	625	625	625	+	III	+	+	-	-	III
50	t230	45	Male	72	SW	Wound	Sen.	9.7	5	78	+	IV	-	-	-	-	I
51	t230	45	Male	43	INT	Urine	Res.	9.7	5	155	+	IV	-	-	-	-	I
52	t30	239	Female	74	EMRG	Blood	Res.	9.7	19	155	+	II	+	-	-	-	III
55	t37	239	Female	28	ICU	Lung	Res.	39	39	310	+	III	+	+	-	-	I
56	t037	239	Male	54	ICU	Lung	Res.	78	155	310	+	I	+	-	-	-	I
64	t230	45	Male	20	INF	Wound	Res.	39	39	310	+	IV	+	-	-	-	I
68	t37	239	Male	42	ICU	Lung	Res.	39	39	310	+	III	+	-	-	-	I
74	t230	45	Male	64	INF	Wound	Res.	9.7	9.7	155	+	IV	-	-	-	-	I
75	t037	239	Female	78	ICU	Lung	Res.	39	39	310	+	III	+	+	-	-	I
77	t230	45	Male	9	PEDI	Blood	Res.	9.7	9.7	155	+	IV	-	-	-	-	I
78	t1741	sg	Male	69	ICU	Lung	Res.	39	39	310	+	III	+	-	-	-	I
79	t230	45	Male	38	INF	Wound	Res.	9.7	9.7	155	+	IV	-	+	-	-	I
81	t30	239	Male	52	INF	Wound	Sen.	9.7	9.7	78	+	II	-	-	-	-	I
86	t230	45	Male	75	NERO	Urine	Sen.	5	9.7	78	+	IV	-	-	-	-	I
2	t1149		Female	84	ICU	Lung	Sen.	5	5	78	-	-	-	+	-	-	I
6	t790		Female	55	HEART	Blood	Res.	9.7	9.7	155	-	-	+	-	-	-	I
7	t1077		Female	45	EMRG	Sputum	Res.	5	2.5	39	-	-	-	+	-	-	I
10	t790		Female	53	EMRG	Urine	Sen.	19	9.7	155	-	-	+	+	-	-	I

ID	*spatype*	MLST	GENDER	AGE	WARD	CULTURE SITE	OXACILLIN	BTC	BKC	CHG	*mecA*	*SCCmec*	*qac*	*smr*	*vanA*	*mec*	*agr*
11	t701		Female	53	EMRG	Blood	Sen.	9.7	19	155	-	-	+	-	-	-	I
12	t571		Female	74	NERO	Blood	Sen.	9.7	19	155	-	-	+	-	-	-	I
13	t790		Male	41	SW	Blood	Sen.	9.7	9.7	155	-	-	+	-	-	-	I
14	t12		Male	83	ICU	Blood	Sen.	5	9.7	78	-	-	-	-	-	-	I
16	t1149		Female	41	INF	Wound	Sen.	9.7	19	155	-	-	+	-	-	-	I
17	t7688	239	Male	68	ICU	Lung	Res.	39	39	155	-	XI	+	-	-	+	I
18	t571		Male	33	INT	Wound	Sen.	9.7	9.7	155	-	-	+	+	-	-	I
19	t2622		Male	52	EMRG	Blood	Sen.	9.7	39	155	-	-	+	-	-	-	I
20	NT		Male	71	NERO	Lung	Sen.	19	19	310	-*	-	-	-	-	-	unknown
21	t790		Male	31	SW	Wound	Sen.	19	19	155	-	-	+	+	-	-	III
23	t1149		Male	47	ICU	Lung	Sen.	5	9.7	155	-	-	+	-	-	-	I
24	t790		Male	58	SW	Synovial	Sen.	2.5	5	155	-	-	+	-	-	-	I
25	t5598		Male	61	ICU	Lung	Sen.	2.5	39	310	-	-	+	-	-	-	III
28	NT		Male	64	ICU	Lung	Sen.	19	39	625	-*	-	-	-	-	-	unknown
32	t30		Female	29	EMRG	Blood	Sen.	19	39	625	-	-	+	-	-	-	I
33	t706		Male	75	EMRG	Blood	Sen.	9.7	39	310	-	-	+	+	-	-	I
35	t790		Female	64	SW	Wound	Sen.	19	19	625	-	-	+	-	-	-	I
39	t5598		Female	45	EMRG	Medical device	Sen.	9.7	9.7	155	-	-	-	-	-	-	I
41	t571		Female	76	ICU	Lung	Res.	19	39	625	-	-	+	-	-	-	II
43	t1149		Male	47	ICU	Lung	Sen.	9.7	19	310	-	-	+	+	-	-	I
47	127		Male	71	INF	Wound	Sen.	9.7	39	310	-	-	-	-	-	-	I
48	t790		Male	60	EMRG	Wound	Sen.	9.7	39	310	-	-	-	-	-	-	I
49	t790		Female	68	ICU	Lung	Sen.	39	19	310	-	-	-	+	-	-	I
54	t701		Male	85	ICU	Lung	Sen.	19	39	78	-	-	-	+	-	-	III
57	t701		Male	57	EMRG	Blood	Sen.	19	39	155	-	-	+	+	-	-	I
59	t790		Female	66	INT	Urine	Sen.	19	19	155	-	-	-	-	-	-	I
61	t701		Female	27	NERO	Urine	Sen.	5	19	155	-	-	+	+	-	-	I
65	t1077		Female		OUT	Sputum	Sen.	19	39	310	-	-	+	-	-	-	I
67	t1149		Female	31	ICU	Lung	Sen.	9.7	39	155	-	-	+	-	-	-	I

ID	*spatype*	MLST	GENDER	AGE	WARD	CULTURE SITE	OXACILLIN	BTC	BKC	CHG	*mecA*	*SCCmec*	*qac*	*smr*	*vanA*	*mec*	*agr*
71	t12		Female	20	INT	Medical Device	Sen.	9.7	9.7	155	-	-	-	-	-	-	I
72	t1077		Female	20	INT	Blood	Sen.	9.7	9.7	310	-	-	-	-	-	-	III
80	t1149		Male	21	EMRG	Medical Device	Sen.	9.7	9.7	78	-	-	-	-	-	-	I
82	t30		Male	48	ICU	Lung	Sen.	5	5	155	-	-	-	-	-	-	I
85	t5		Female	56	EMRG	Blood	Sen.	5	9.7	78	-	-	-	-	-	-	I
87	t2622		Female	4	PEDI	Throat	Sen.	9.7	9.7	155	-	-	+	+	-	-	I
88	t30		Female	50	EMRG	Blood	Sen.	9.7	9.7	155	-	-	+	-	-	-	I
89	t1149		Male	43	ICU	Lung	Sen.	2.5	19	78	-	-	+	-	-	-	I

Primers and programs for genes detection				
Gene	Primers pairs	Size (bbp)	program	reference
Sa442	Sa442-F; AATCTTTGTCGGTACACGATATTC TTCACG Sa442-R; GTAATGAGATTTCAGTAGATAATACAACA	442	96°C for 3 min; 30 or 40 cycles of 95°C for 1s, and 55°C for 30 s	11
Multiplex for *SCCmec*	*SCCmec* type I, Cif2-F; TTCGAGTTGCTGATGAAGAAGG Cif2-R; ATTTACCACAAGGACTACCAGC *SCCmec* type II Kdp-F; AATCATCTGCCATTGGTGATGC Kdp-R; CGAATGAAGTGAAAGAAAGTGG *SCCmec* type II, III; Meci-F; ATCAAGACTTGCATTCAGGC Meci-R; GCGGTTTCAATTCACTTGTC *SCCmec* type I,II,IV; Dcs-F; CATCCTATGATAGCTTGGTC Dcs-R; CTAAATCATAGCCATGACCG *SCCmec* type III Rif4-F; GTGATTGTTCGAGATATGTGG Rif4-R; CGCTTTATCTGTATCTATCGC *SCCmec* type III Rif5-F; TTCTTAAGTACACGCTGAATCG Rif5-R; GTCACAGTAATTCCATCAATGC Internal control Meca P4; TCCAGATTACAACTTCACCAGG Meca P7; CCACTTCATATCTTGTAACG	495 284 209 342 243 414 162	94°C for 4 min; 30 cycles of 94°C for 30 s, 53°C for 30 s, and 72°C for 1 min; post extension for 4 min at 72°C	13
qacA/B	*qacA*-F; TGCCTTATATTTATTTAATAATAGCC *qacA*-R; ATGCGATGTTCCGAAAATGTTTAAC	321	96°C for 3 min; 25 cycles of 94°C for 30 s, 55°C for 30 s and 72°C for 1 min; and a post extension for 5 min at 72³C	8
smr	*Smr*-F; CTATGGCAATAGGAGATATGGTGT *Smr*-R; CCACTACAGATTCTTCAGCTACATG	417	96°C for 3 min; 25 cycles of 94°C for 30 s, 55°C for 30 s and 72°C for 1 min; and a post extension for 5 min at 72³C	8
Multiplex for *agr*	Pan *agr*-F; ATGCACATGGTGCACATGC *agr* I-R; GTCACAAGTACTATAAGCTGCGAT *agr* II-R; GTATTACTAATTGAAAAGTGCCATAGC *agr* III-R; TGTTGAAAAAGTCAACTAAAAGCTC *agr* IV-R; CGATAATGC-CGTAATACCCG	440 572 406 588	94°C for 5 min, 30 cycles of 94°C for 1 min, 57°C for 1 min, 72°C for 1 min, and a post extension for 5 min at 72°C.	5
vanA	*vanA*-F; GGCAAGTCAGGTGAAGATG *vanA*-R; ATCAAGCGGTCAATCAGTTC	713	94°C for 5 min; 40 cycles of 94°C for 40 s, 60°C for 40 s, and extension at 72°C for 1 min	5