

Clinical, phenotypic and genotypic profiles of MRSA isolates

Isolate		MIC (mg/L)														PCR							
No.	Source	OXA	GE	CIP	MX	ERY	CLI	LIN	TEI	VAN	TET	TIG	FA	RIF	SXT	<i>mecA</i>	<i>blaZ</i>	<i>aac-aph</i>	<i>tetK</i>	<i>ermC</i>	<i>lukS/F-PV</i>	<i>hla</i>	PFGE clade
S2	Blood	≥4(R)	1(R)	4(R)	1(S)	≤0.25(S)	≤0.25(S)	1(S)	≤0.5(S)	1(S)	≥16(R)	0.5(S)	≤0.5(S)	≤0.5(I)	≥320(R)	+	+	+	-	-	-	-	B
S3	Urethral	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
S5	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	-	-	-	-	-	-	-	B
S9	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
S10	Urine	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	1(I)	4(R)	1(S)	≤0.5(S)	1(S)	≥16(R)	≤0.12(S)	8(I)	1(S)	20(S)	-	+	+	-	-	-	-	B
S12	Urethral	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
S14	Unknown	≥4(R)	8(1)	≤0.5(S)	≤0.25(S)	≥8(R)	≥8(R)	2(S)	≤0.5(S)	1(S)	≥16(R)	≤0.12(S)	4(I)	1(S)	40(S)	-	-	+	-	-	-	-	B
S15	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	+	-	-	-	+	+	B
S16	Urethral	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	-	+	-	-	-	-	-	B
S22	Urine	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≥8(R)	≥8(R)	2(S)	≤0.5(S)	1(S)	≥16(R)	≤0.12(S)	-	-	≤10(I)	+	+	+	-	-	-	-	A
S27	Unknown	≥4(R)	8(1)	≤0.5(S)	≤0.25(S)	≥8(R)	≥8(R)	2(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	4(I)	1(S)	20(S)	-	-	-	-	-	-	-	-
S28	Urine	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≥8(R)	≥8(R)	2(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	8(I)	1(S)	20(S)	-	-	-	-	-	-	-	-
S31	unknown	≥4(R)	4(R)	≥8(R)	1(S)	≤0.25(S)	≤0.25(S)	1(S)	1(S)	1(S)	≥16(R)	0.5(S)	≤0.5(S)	≤0.5(I)	≥320(R)	+	+	+	+	-	-	-	B
S38	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	1(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(I)	80(R)	-	-	-	-	-	-	-	B
C7	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤1(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	+	B
C16	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C18	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	1(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	≤0.5(S)	≤0.5(I)	≤10(S)	+	+	-	-	-	-	-	B
C19	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C22	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	1(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C25	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C28	Blood	≥4(R)	2(R)	1(I)	≤0.25(S)	≤0.25(S)	≤0.25(S)	2(S)	≤0.5(S)	≤0.5(S)	2(R)	0.5(S)	≤0.5(S)	≤0.5(I)	≤10(S)	-	-	-	-	-	-	-	B
C30	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(I)	≤10(S)	+	-	-	-	-	-	-	B
C31	Blood	≥4(R)	4(R)	≥8(R)	4(R)	≥8(R)	≥8(R)	1(S)	1(S)	≤0.5(S)	≥16(R)	0.5(S)	≤0.5(S)	≤0.5(I)	≥320(R)	+	+	+	-	-	-	-	B
C34	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	1(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	≤0.5(S)	≤0.5(I)	≤10(S)	+	+	-	-	-	-	+	B
C35	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	2(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	≤0.5(S)	≤0.5(I)	≤10(S)	+	-	-	+	-	-	-	B
C51	blood	≥4(R)	4(R)	≥8(R)	4(R)	≥8(R)	≥8(R)	1(S)	2(S)	≤0.5(S)	≥16(R)	0.5(S)	≤0.5(S)	≤0.5(I)	≥320(R)	-	-	+	-	-	-	-	-
C64	Urine	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	2(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	≤0.5(S)	≤0.5(I)	≤10(S)	-	-	-	-	-	-	-	-
C69	Blood	≥4(R)	≥16(R)	≥8(R)	2(R)	≥8(R)	≥8(R)	2(S)	2(S)	1(S)	4(R)	0.25(S)	≤0.5(S)	≤0.5(I)	≥320(R)	+	+	+	+	+	-	-	-
S4	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	1(S)	1(S)	≤0.5(S)	≥16(R)	0.5(S)	≤0.5(S)	≥32(R)	≤10(S)	+	+	+	+	-	-	-	B
S6	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	1(S)	1(S)	≤0.5(S)	≥16(R)	0.25(S)	≤0.5(S)	≥32(R)	≤10(S)	+	+	+	+	-	-	-	A
S7	Urethral	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	A
S8	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	A
S13	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	A
S17	Unknown	≥4(R)	≤0.5(S)	≥8(R)	1(S)	≤0.25(S)	≤0.25(S)	1(S)	2(S)	≤0.5(S)	≥16(R)	1(S)	≤0.5(S)	≥32(R)	≥320(R)	+	+	+	+	-	-	-	A
S20	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	A
S21	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	A
S23	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	A
S25	Blood	≥4(R)	≤0.5(S)	4(R)	1(S)	≤0.25(S)	≤0.25(S)	1(S)	≤0.5(S)	≤0.5(S)	≥16(R)	0.5(S)	≤0.5(S)	≥32(R)	≥320(R)	+	+	+	+	-	-	-	A
S32	Urethral	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B

S37	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	-	-	-	-	-	-	-	B
C15	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	-	-	-	-	-	-	-	-
C23	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	1(S)	≤0.25(S)	0.5(S)	2(S)	2(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(I)	≤10(S)	-	+	-	+	-	+	-	-
C37	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤0.5(S)	-	-	-	-	-	-	-	B
C40	Unknown	≥4(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	1(S)	≤0.5(S)	≤0.5(S)	≥16(R)	≤0.12(S)	4(I)	≤0.5(I)	160(R)	+	+	-	-	-	-	-	B
C41	Blood	2(R)	≤0.5(S)	≤0.5(S)	≤0.25(S)	≤0.25(S)	≤0.25(S)	2(S)	4(S)	1(S)	≥16(R)	≤0.12(S)	16(I)	≤0.5(I)	≥320(R)	+	+	-	+	-	-	-	B
C42	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	1(S)	≤0.25(S)	0.5(S)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C45	Blood	≥4(R)	4(R)	≥8(R)	4(R)	≥8(R)	≥8(R)	≤0.5(S)	≤0.5(S)	≤0.5(S)	≥16(R)	0.25(S)	≤0.5(S)	≤0.5(I)	≥320(R)	+	+	+	+	+	-	-	B
C46	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C49	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	1(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C53	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C54	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	-	-	-	-	-	-	-	B
C56	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	0.5(I)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	-	-	-	-	-	-	-	B
C57	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C59	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	1(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C60	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	1(S)	≤0.25(S)	≤0.25(S)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C61	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	1(S)	≤0.25(S)	0.5(S)	2(S)	1(S)	≤0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B
C65	Blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	0.5(S)	0.5(S)	≤1(S)	≤0.12(S)	16(I)	≤0.5(S)	≤10(S)	+	+	-	+	-	-	-	B
C70	blood	≥4(R)	≤0.5(S)	≤0.5(S)	0.5(S)	≤0.25(S)	≤0.25(I)	2(S)	≤0.5(S)	≤0.5(S)	≤1(S)	≤0.12(S)	8(I)	≤0.5(S)	≤10(S)	+	-	-	-	-	-	-	B

OXA: oxacillin, GE: gentamicin, CIP: ciprofloxacin, MX: moxifloxacin, ERY: erythromycin, CLI: clindamycin, LIN: linezolid, TEI: teicoplanin, VAN: vancomycin, TIG: tigecycline, FA: fusidic acid, RIF: rifampicin, SXT: trimethoprim/sulfamethoxazole, R: resistant, I: intermediate, S: susceptible, (-): negative, R: resistant, S: susceptible, I: intermediate