Table S1. Primer sequences used to amplify specific virulence, antimicrobial resistance genes in this study.

Target	Gene	Primer Sequence	Tm (°C)	Amplicon Size	Positive Control Strain	Reference
Methicillin	*mecA*	F-GTGAAGATATACCAAGTGATT R-ATGCGCTATAGATTGAAAGGAT	55	533	ATCC 43300[a]	[1]
	mecC	F-GAAAAAAAGGCTTAGAACGCCTC R-GAAGATCTTTTCCGTTTTCAGC	54	138	MRSA 123A[a]	[2]
Oxazolidinone	*cfr*	F-TGAAGTATAAAGCAGGTTGGGAGTCA R-ACCATATAATTGACCACAAGCAGC	48	746	*E. faecalis* 147C[a]	[3]
	optrA	F-AGGTGGTCAGCGAACTAA R-ATCAACTGTTCCCATTCA	55	1395	*E. faecalis* 147C[a]	[4]
Vancomycin	*vanA*	F-GGCAAGTCAGGTGAAGATG R-ATCAAGCGGTCAATCAGTTC	55	713	*E. faecium* A4[a]	[5]
	vanB	F-GTGACAAACCGGAGGCGAGGA R-CCGCCATCCTCCTGCAAAAAA	50	430	*E. faecium* 56C[a]	[5]
Erythromycin	*ermA*	F-GTTCAAGAACAATCAATACAGAG R-GGATCAGGAAAAGGACATTTTAC	47	421	MSSA 195A[a]	[6]
	ermB	F-CCGTTTACGAAATTGGAACAGGTAAAGGGC R-GAATCGAGACTTGAGTGTGC	47	359	MSSA 96A[a]	[6]
	ermC	F-GCTAATATTGTTTAAATCGTCAATTCC R-GGATCAGGAAAAGGACATTTTAC	47	572	MSSA 96A[a]	[6]
Tetracycline	*tetK*	F-TCGATAGGAACAGCAGTA R-CAGCAGATCCTACTCCTT	57	169	MRSA 109A[a]	[2]
Aminoglycoside	*aac(6')-aph(2'')*	F-TAATCCAAGAGCAATAAGGGC R-GCCACACTATCATAACCACTA	55	348	MRSA 3A[a]	[7]
Leukocidin	*lukS/F-PV*	F-ATCATTAGGTAAAATGTCTGGACATGATCCA R-GCATCAAGTGTATTGGATAGCAAAAGC	56	443	ATCC 49775[a]	[2]
	lukD	F-TTGCACTGCTTTTGCTATCG R-GCATTTGATGTGTTGGCAAG	53	675	ATCC 33591[a]	[8]
	lukE	F-GATTGCGCCTTTAGCATCTC R-GCTGAACCTGTTGGACCATT	55	612	ATCC 33591[a]	[8]
Alpha-hemolysin	*hla*	F-TGCCGCAGATTCTGATATTAA R-TTTCTGAAGAACGATCTGTCCA	51	845	MRSA 13A[a]	[9]
Beta-hemolysin	*hlb*	F-TATCCAAACTGGGGGCAATA R-AACCGCTTTTGAAAACATGC	50	292	NCTC 7428[b]	[8]
Delta-hemolysin	*hld*	F-TAATTAAGGAAGGAGTGATTTCAATG R-TTTTTAGTGAATTTGTTCACTGTGTC	51	100	NCTC 9393[b]	[8]
Toxic shock syndrome toxin-1	*tst*	F-TTTTTTATCGTAAGCCCTTTGTTGC R-CACCCGTTTTATCGCTTGAA	51	550	ATCC 33586[a]	[9]
Exfoliative toxin	*eta*	F-CTAGTGCATTTGTTATTCAAGACG R-TGCATTGACACCATAGTACTTATTC	53	119	MRSA 273A[a]	[8]
	etb	F-ACGGCTATATACATTCAATTCATTG R-AAAGTTATTCATTTAATGCACTGTCTC	53	262	MRSA 277A[a]	[8]
Enterotoxins	*sea*	F-CGATCAATTTATGGCTAGACGG R-TTGCTTGAAGATCCAACTCCTG	50	101	ATCC 13566[b]	[10]
	seb	F-AAGGACACTAAGTTAGGGAATT R-GTTACACCACCATACATACAAG	50	197	ATCC 13566[b]	[10]
	sec	F-GGTAAAGTTACAGGTGGCAAAA R-TCTTGAGCTGTTGCACTTTTCT	50	170	ATCC 19095[b]	[10]
	sed	F-GTTTGATTCTTCTGATGGGTC R-TGTCAATATGAAGGTGCTCTG	50	128	ATCC 23235[b]	[10]
	see	F-TAATAACCGATTGACCGAAGA R-ATAACTTACCGTGGACCCTTC	50	244	ATCC 27664[b]	[10]
	seg	F-AAGTAGACATTTTTGGCGTTCC R-AGAACCATCAAACTCGTATAGC	50	287	MRSA 3A[a]	[10]
	seh	F-GTCTATATGGAGGTACAACACT R-GACCTTTACTTATTTCGCTGTC	53	213	ATCC 51811[b]	[10]
	sei	F-GGTGATATTGGTGTAGGTAAC R-ATCCATATTCTTTGCCTTTACCAG	55	454	MRSA 3A[a]	[10]
	sej	F-ATAGCATCAGAACTGTTGTTCCG R-CTTTCTGAATTTTACCACCAAAGG	55	152	MRSA46A[a]	[10]
	sek	F-TAGGTGTCTCTAATAATGCCA R-TAGATATTCGTTAGTAGCTG	55	293	MRSA 238A[a]	[10]
	sel	F-TAACGGCGATGTAGGTCCAGG R-CATCTATTTCTTGTGCGGTAAC	52	383	MRSA 238A[a]	[10]
	sem	F-GGATAATTCGACAGTAACAG R-TCCTGCATTAAATCCAGAAC	50	379	MRSA 3A[a]	[10]
	sen	F-TATGTTAATGCTGAAGTAGAC R-ATTTCCAAAATACAGTCCATA	51	282	MRSA 3A[a]	[10]
	seo	F-TGTGTAAGAAGTCAAGTGTAG	53	214	MRSA 3A[a]	[10]

		R-TCTTTAGAAATCGCTGATGA				
	icaA	F-ACACTTGCTGGCGCAGTCAA R-TCTGGAACCAACATCCAACA	51	188	MSSA 96A[a]	[11]
	icaD	F-ATGGTCAAGCCCAGACAGAG R-AGTATTTTCAATGTTTAAAGCAA	55	198	MSSA 96A[a]	[11]
ica operon	*icaB*	F-AGAATCGTGAAGTATAGAAAATT R-TCTAATCTTTTTCATGGAATCCGT	54	880	MSSA 96A[a]	[11]
	icaC	F-ATGGGACGGATTCCATGAAAAAGA R-TAATAAGCATTAATGTTCAATT	50	1066	MSSA 96A[a]	[11]
	icaR	F-ATCTAATACGCCTGAGGA R-TTCTTCCACTGCTCCAA	50	205	MSSA 96A[a]	[11]
	clfA	F-ATTGGCGTGGCTTCAGTGCT R-CGTTTCTTCCGTAGTTGCATTTG	53	288	ATCC 25923[a]	[11]
	clfB	F-CACTTACTTTACCGCTACTTTC R-AACGAGCAATACCACTACAACAG	53	968	ATCC 25923[a]	[11]
	fnbA	F-ACCGTCAAACGCAACACAAG R-TTCTGATGCCGTTCTTGGCT	53	259	ATCC 33591[a]	[11]
	fnbB	F-GTAACAGCTAATGGTCGAATTGATACT R-CAAGTTCGATAGGAGTACTATGTTC	56	523	ATCC 33591[a]	[11]
	cidA	F-AGCGTAATTTCGGAAGCAACATCCA R-CCCTTAGCCGGCAGTATTGTTGGTC	54	170	ATCC 33591[a]	[11]
	fib	F-CTACAACTACAATTGCGTCAACAG R-GCTCTTGTAAGACCATTTTCTTCAC	54	405	ATCC 33591[a]	[11]
Adhesion	*bap*	F-CCATATATCGAAGGTGTAGAATTG R-GCTGTTGAAGTTAATACTGTACCTGC	54	971	MRSA 158A[a]	[11]
	cna	F-AAAGCGTTGCCTAGTGGAGA R-AGTGCCTTCCCAAACCTTTT	50	192	ATCC 33591[a]	[11]
	ebps	F-AGAATGCTTTTGCAATGGAT R-AATATCGCTAATGCACCGAT	51	652	ATCC 25923[a]	[11]
	eno	F-TGCCGTAGGTGACGAAGGTGGTT R-GCACCGTGTTCGCCTTCGAACT	50	196	ATCC 33591[a]	[11]
	sdrC	F-ACGACTATTAAACCAAGAAC R-GTACTTGAAATAAGCGGTTG	50	560	ATCC 33591[a]	[11]
	sdrD	F-GGAATAAAGTTGAAGTTTC R-ACTTTGTCATCAACTGTAAT	52	500	ATCC 33591[a]	[11]
	sdrE	F-CAGTAAATGTGTCAAAAGA R-TTGACTACCAGCTATATC	52	767	ATCC 33591[a]	[11]
Others	*nuc*	F-GCGATTGATGGTGATACGGTT R-AGCCAAGCCTTGACGAACTAAAGC	55	270	ATCC 29213[a]	[2]
	spa	F-TAAAGACGATCCTTCGGTGAGC R-CAGCAGTAGTGCCGTTTGCTT	60	-	ATCC 29213[a]	[6]

ATCC: American Type Culture Collection; MRSA: methicillin-resistant *Staphylococcus aureus*; *E. faecalis*: *Enterococcus faecalis*; *E. faecium*: *Enterococcus faecium*; MSSA: methicillin-susceptible *Staphylococcus aureus*; NCTC: National Collection of Type Cultures.

[a] These strains were obtained from the college of veterinary medicine of south China agricultural university. Except for ATCC strains, all strains were completely sequenced using Illumina Hiseq TM2000 sequencing platform.

[b] These strains were obtained from the China General Microbiological Culture Collection Center.

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