Appendix 1. The List of Primers Used in this Study

Target gene	Primer sequences (5′ → 3′)	Amplicon size (bp)	PCR condition			Reference
nucA	F: 5´- AGTTCAGCAAATGCATCACA-3´ R: 5´-TAGCCAAGCCTTGACGAACT-3´	400	94°C	5 min	1 cycle	(18)
			94°C	45 s	30 cycles	
			62°C	45 s		
			72°C	90 s		
icaA	F: 5´-ACACTTGCTGGCGCAGTCAA-3´ R: 5´-TCTGGAACCAACATCCAACA-3	188	95°C	10 min	1 cycle	(19)
			94°C	1 min	25 cycles	
			55°C	1 min		
			72°C	1 min		
icaD	F: 5´-ATGGTCAAGCCCAGACAGAG-3´ R: 5´- AGTATTTTCAATGTTTAAAGCAA-3´	198	95°C	10 min	1 cycle	(19)
			94°C	1 min	25 cycles	
			55°C	1 min		
			72°C	1 min		
cna	F: 5´-AAAGCGTTGCCTAGTGGAGA-3´ R: 5´-AGTGCCTTCCCAAACCTTTT-3´	192	95°C	10 min	1 cycle	(19)
			94°C	1 min	25 cycles	
			55°C	1 min		
			72°C	1 min		

fnbA	F: 5´-CATAAATTGGGAGCAGCATCA-3´ R: 5´-ATCAGCAGCTGAATTCCCATT-3´	128	95°C	10 min	1 cycle	(19)
			94°C	1 min	25 cycles	
			55°C	1 min		
			72°C	1 min		
clfA	F: 5´- ATTGGCGTGGCTTCAGTGCT-3´ R: CGTTTCTTCCGTAGTTGCATTTG-3´	292	95°C	10 min	1 cycle	(19)
			94°C	1 min	25 cycles	
			55°C	1 min		
			72°C	1 min		
agr I	F: 5´-ATGCACATGGTGCACATGC-3´ R: 5´-GTCACAAGTACTATAAGCTGCGAT-3´	441	95°C	10 min	1 cycle	(19)
			95°C	30 s	25 cycles	
			60°C	1 min		
			72°C	1 min		
agr II	F: 5´- ATGCACATGGTGCACATGC-3´ R: 5´-TATTACAAATTGAAAAGTGGCCATAGC-3´	575	95°C	10 min	1 cycle	(19)
			95°C	30 s	25 cycles	
			60°C	1 min		
			72°C	1 min		
agr III	F: 5-´ATGCACATGGTGCACATGC-3´ R: 5´-GTAATGTAATAGCTTGTATAATAATACCCAG-3´	323	95°C	10 min	1 cycle	(19)
			95°C	30 s	25 cycles	
			60°C	1 min		
			72°C	1 min		
agr IV	F: 5´-ATGCACATGGTGCACATGC-3´ R: 5´-CGATAATGCCGTAATACCCG-3´	659	95°C	10 min	1 cycle	(19)
			95°C	30 s		

			60°C	1 min	25 cycles	
			72°C	1 min		
mecA	F: 5´-GTAGAAATGACTGAACGTCCGATAA-3´ F: 5´-CCAATTCCACATTGTTTCGGTCTAA-3´	310	94°C	4 min	1 cycle	(18)
			94°C	45 s	30 cycles	
			50°C	45 s		
			72°C	2 min		
SCCmec Type I	F: 5´-GCTTTAAAGAGTGTCGTTACAGG-3´ R:5´-GTTCTCTCATAGTATGACGTCC-3	613	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		
SCCmec Type II	F: 5´-GGTTGAAGATGATGAAGCG-3´ R: 5´-GCAAATCAATGGTTAATGGACC-3´	398	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		
SCCmec Type III	F: 5´-CCATATTGTGTACGATGCG-3´ R: 5´-CCTTAGTTGTCGTAACAGATCG -3´	280	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		

SCCmec Type Iva	F: 5´- GCCTTATTCGAAGAAACCG-3´ R: 5´-CTACTCTTCTGAAAAGCGTCG-3´	776	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		
SCCmec Type IVb	F: 5´-TCTGGAATTACTTCAGCTGC-3´ R: 5´-AAACAATATTGCTCTCCCTC-3´	493	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		
SCCmec Type IVc	F: 5´-ACAATATTTGTATTATCGGAGAGC-3´ R: 5´-TTGGTATGAGGTATTGCTGG-3´	200	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		
SCCmec Type IVd	F: 5´-CTCAAAATACGGACCCCAATACA-3´ R: 5´-TGCTCCAGTAATTGCTAAAG-3´	881	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		
SCCmec Type V	F: 5´-GAACATTGTTACTTAAATGAGCG-3´ R: 5´-TGAAAGTTGTACCCTTGACACC-3´	325	94°C	5 min	1 cycle	(21)
			94°C	45 s	25 cycles	
			55°C	45 s		
			72°C	90 s		

aac(6')-Ie-aph(2'')-Ia	F: 5´-CAGAGCCTTGGGAAGATGAAG-3´ R: 5´-CCTCGTGTAATTCATGTTCTGGC-3´	348	94°C	3 min	1 cycle	(20)
			94°C	40 s	30 cycles	
			55°C	40 s		
			72°C	40 s		
ant(6)-Ia	F: 5´-AATTGTGACCCTTGAGGG -3´ R: 5´- GGCATATGTGCTATCCAG -3´	814	94°C	3 min	1 cycle	(20)
			94°C	1 min	35 cycles	
			54°C	1 min		
			72°C	1 min		
aph(3')-IIIa	F: 5´- CCGCTGCGTAAAAGATAC -3´ R: 5´- GTCATACCACTTGTCCGC -3´	609	94°C	3 min	1 cycle	(20)
			94°C	1 min	35 cycles	
			57°C	1 min		
			72°C	1 min		
grlA	F: 5´-ACTTGAAGATGTTTTAGGTGAT -3´ R: 5´- TTAGGAAATCTTGATGGCAA -3	380	94°C	10 min	1 cycle	(12)
			94°C	20 s	25 cycles	
			55°C	20 s		
			72°C	50 s		
grlB	F: 5´- CGATTAAAGCACAACAAGCAAG -3´ R: 5´- CATCAGTCATAATAATTACTC -3	375	94°C	10 min	1 cycle	(12)
			94°C	20 s	25 cycles	
			55°C	20 s		
			72°C	50 s		
gyrA	F: 5´- AATGAACAAGGTATGACACC -3´ R: 5´- TACGCGCTTCAGTATAACGC -3	233	94°C	10 min	1 cycle	(12)
			94°C	20 s	25 cycles	
			55°C	20 s		

			72°C	50 s		
gyrB	F: 5´-CAGCGTTAGATGTAGCAAGC -3´ R: 5´- CCGATTCCTGTACCAAATGC -3	249	94°C	10 min	1 cycle	(12)
			94°C	20 s	25 cycles	
			55°C	20 s		
			72°C	50 s		

Appendix 2. PhP Typing of *S. aureus* Strains Isolated from Patients with UTI.