

Supplementary Materials:

Table 1. Primers used in this study.

Primer name	Primer sequence (5'-3')	Fragment size (bp)	Annealing temperature (°C)	Reference
<i>fnbA</i>	GATACAAACCCAGGTGGTGG TGTGCTTGACCATGCTCTTC	191	52	Zmantar et al., 2008
<i>fnbB</i>	ACGCTCAAGGCGACGGCAAAG ACCTTCTGCATGACCTTCTGCACCT	197	62	Pereyra et al., 2016
<i>clfB</i>	TGCAAGTGCAGATTCCGAAAAAAC CCGTCGGTTGAGGTGTTTCATTG	194	62	Klein et al., 2012
<i>cna</i>	AAAGCGTTGCCTAGTGGAGAC AGTGCCTTCCCAAACCTTTT	192	54	Zmantar et al., 2008
<i>bap</i>	CCCTATATCGAAGGTGTAGAATTG GCTGTTGAAGTTAATACTGTACCTGC	971	60	Darwish and Asfour, 2013
<i>icaA</i>	CCTAACTAACGAAAGGTAG AAGATATAGCGATAAGTGC	1351	49	Wang et al., 2018
<i>icaD</i>	AAACGTAAGAGAGGTGG GGCAATATGATCAAGATAC	381	49	Pereyra et al., 2016
<i>sea</i>	CCTTTGGAAACGGTTAAAACG TCTGAACCTTCCCATCAAAAAC	127	55	Bayles, K, et al.,1998
<i>seb</i>	TCGCATCAAACGACAAACG GCAGGTACTCTATAAGTGCCTGC	477	53	Bayles, K, et al.,1998
<i>sec</i>	AGATTTAGCAAAGAAGTACAAAGATG AAGGTGGACTTCTATCTTCACACTT	490	63	Sergeev, et al.,2004
<i>sed</i>	GAGGTGTCACTCCACACGAA TGAAGGTGCTCTGTGGATAATG	349	57	Avanish K et al.,2009
<i>see</i>	ACCGATTGACCGAAGAAAAA ATTGCCCTTGAGCATCAAAC	264	51	Avanish K et al.,2009
<i>seg</i>	AGAATTAGCTAACAATTATAAAGATAA AAAAG	496	60	Sergeev, et al.,2004
<i>seh</i>	TCAGTGAGTATTAAGAAATACTTCCAT TGATTTAGCTCAGAAGTTAAAAATAA AAATG	466	62	Sergeev, et al.,2004
<i>sei</i>	TTTCTTAGTATATAGATTTACATCAATAT TGGAACAGGACAAGCTGAAA TGTTTGCCATTAACCCAAAG	529	51	Avanish K et al.,2009
<i>sej</i>	ATGAAAAAACAATATTTATACTGATTT TCTCCC	807	57	Sergeev, et al.,2004

	TCTACAGAACCAAAGGTAGACTTATTA ATAC			
<i>sek</i>	ATGAATCTTATGATTTAATTTTCAGAATC AA	545	60	Sergeev, et al.,2004
	ATTTATATCGTTTCTTTATAAGAAATATC			
<i>sel</i>	ATGAAAAAAGATTATTATTTGTAATTG TTATTAC	723	60	Sergeev, et al.,2004
	ATCATCTTTTTGAAATTTTCGACATCTAG			
<i>sem</i>	ATGAAAAGAATACTTATCATTGTTGTTT TATTG	258	60	Sergeev, et al.,2004
	CTTCAACTTTCGTCCTTATAAGATATTTT ATAAAAAATATTA AAAAGCTTATGAGA			
<i>sen</i>	TTGTTC ACTTAATCTTTATATAAAAATACATCAA TATG	777	60	Sergeev, et al.,2004
<i>seo</i>	TATGTAGTGTAACAATGCATATGCA TCTATTGTTTTATTATCATTATAAATTTG CAAAT	685	58	Sergeev, et al.,2004
<i>seq</i>	GGAAAATACACTTTTATATTCACAGTTTC ATTTATTCAGTTTTCTCATATGAAATCTC	539	60	Sergeev, et al.,2004
<i>ser</i>	AGCGGTAATAGCAGAAAATG TCTTGTACCGTAACCGTTTT	363	51	Holtfreter, et al., 2007
<i>seu</i>	AATGGCTCTAAAATTGATGG ATTTGATTTCCATCATGCTC	215	49	Holtfreter, et al., 2007
<i>tsst</i>	AAGCCCTTTGTTGCTTGCG ATCGAACTTTGGCCATACTTT	447	53	Bayles, K, et al.,1998

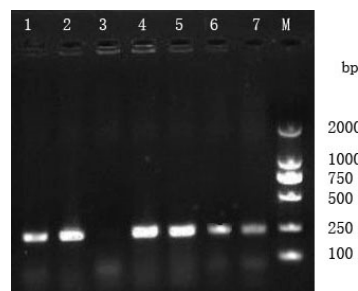


Figure 1. PCR amplification for the detection of *fnbA*, *fnbB* and *clfB* gene of *S. aureus* isolates. M: DL2000 marker; 1-3: PCR verification of *fnbA* gene with 191 bp, Line 1-3: different isolates from raw goat milk; 4-5: PCR verification of *fnbB* gene with 197 bp, Line 4-5: different isolates from raw goat milk; 6-7: PCR verification of *clfB* gene with 194 bp, Line 6-7: different isolates from raw goat milk.

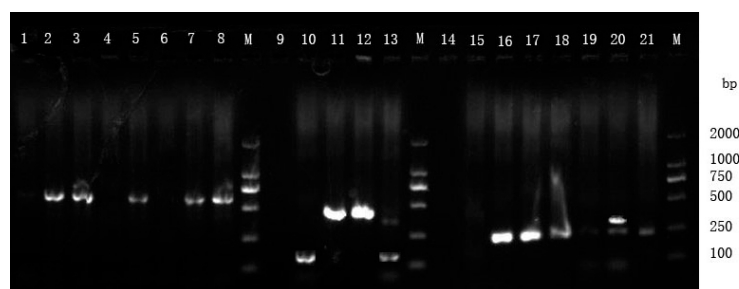


Figure 2. PCR amplification for the detection of *seo*, *sek*, *sei*, *seb*, *sea*, *cna*, *seu* and *see* genes of *S. aureus* isolates. M: DL2000 marker; 1-2: PCR verification of *seo* gene with 685 bp, Line 1-2: different isolates from raw goat milk; 3-4: PCR verification of *sek* gene with 545 bp, Line 3-4: different isolates from raw goat milk; 5-8: PCR verification of *sei* gene with 529 bp, Line 5-8: different isolates from raw goat; 9-10: PCR verification of *sea* gene with 127 bp, Line 9-10: different isolates from raw goat; 11-13: PCR verification of *seb* gene with 477 bp, Line 11-13: different isolates from raw goat; 14-15: PCR verification of *cna* gene with 192 bp, Line 14-15: different isolates from raw goat; 16-18: PCR verification of *seu* gene with 215 bp, Line 16-18: different isolates from raw goat; 19-20: PCR verification of *sek* gene with 264 bp, Line 19-20: different isolates from raw goat.

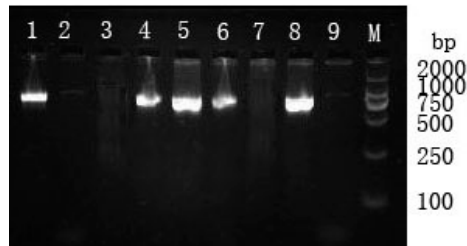


Figure 3. PCR amplification for the detection of *bap*, *sej* and *sen* genes of *S. aureus* isolates. M: DL2000 marker; 1-2: PCR verification of *bap* gene with 971 bp, Line 1-2: different isolates from raw goat; 3-4: PCR verification of *sej* gene with 807 bp, Line 3-4: different isolates from raw goat; 5-9: PCR verification of *bap* gene with 777 bp, Line 5-9: different isolates from raw goat.

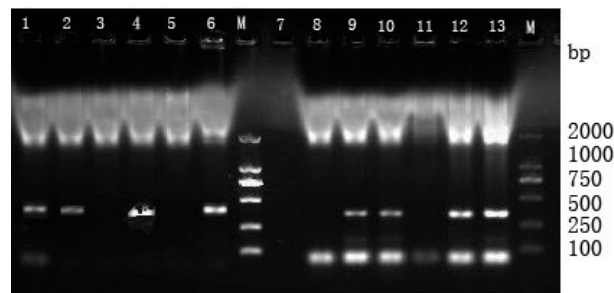


Figure 4. PCR amplification for the detection of *sec*, *seh*, *seg*, *tsst* and *ser* genes of *S. aureus* isolates. M: DL2000 marker; 1-2: PCR verification of *sec* gene with 490 bp, Line 1-2: different isolates from raw goat; 3-4: PCR verification of *seh* gene with 466 bp, Line 3-4: different isolates from raw goat; 5-7: PCR verification of *seg* gene with 486 bp, Line 5-7: different isolates from raw goat; 8-10: PCR verification of *ser* gene with 363 bp, Line 11-12: different isolates from raw goat.

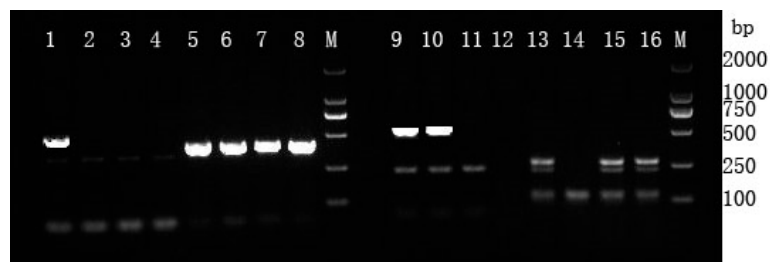


Figure 5. PCR amplification for the detection of *sel*, *sed*, *icaD*, *seq* and *sem* gene of *S. aureus* isolates. M: DL2000 marker; 1-2: PCR amplification of *sel* gene with 723 bp, Line 1-2: different isolates from raw goat; 3-5: PCR verification of *sed* gene with 349 bp, Line 3-5: different isolates from raw goat; 6-8: PCR verification of *icaD* gene with 381 bp, Line 6-8: different isolates from raw goat; 9-12: PCR verification of *seq* gene with 539 bp, Line 9-12: different isolates from raw goat; 13-16: PCR verification of *sem* gene with 258 bp, Line 13-16: different isolates from raw goat.