Supplementary Information

Detection of Antibiotic Resistant *Staphylococcus aureus* from Milk: A Public Health Implication

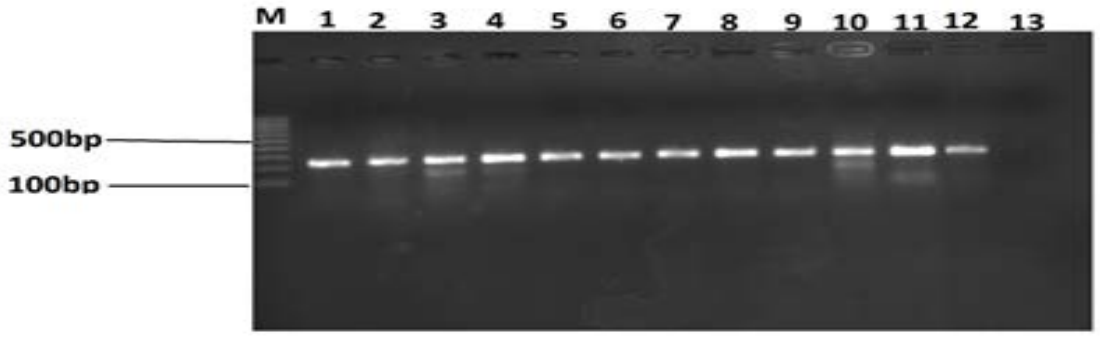


Figure S1. Agarose gel electrophoresis analysis for the 16rRNA gene in *S. aureus* isolates. Lane M = 100bp DNA maker, Lanes 1–11 = *S. aureus* isolates, lane 12 = *S. aureus* 25923 (positive control), lane 13 = negative control.

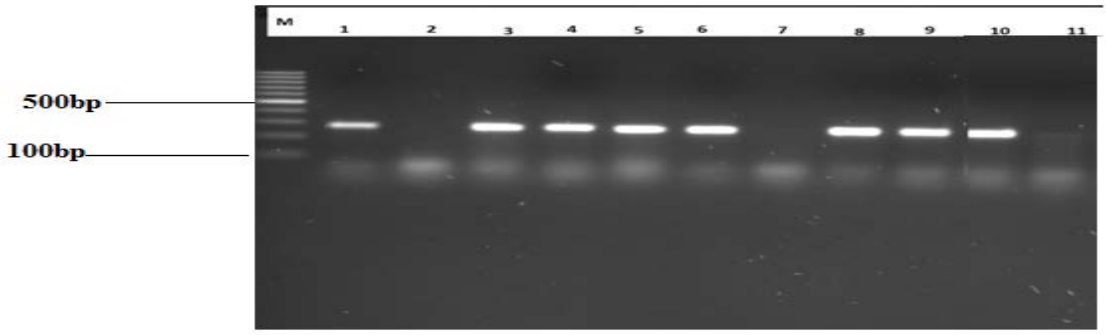


Figure S2. Agarose gel electrophoresis analysis for the *nuc* gene in *S. aureus* isolates. Lane M = 100bp DNA maker; Lanes 1, 3, 4, 5, 6, 8 and 9 = *S. aureus* isolates; lanes 2 and 7 = nuc negative isolates; lane 10 = *S. aureus* 25923 (positive control); lane 11 = negative control.

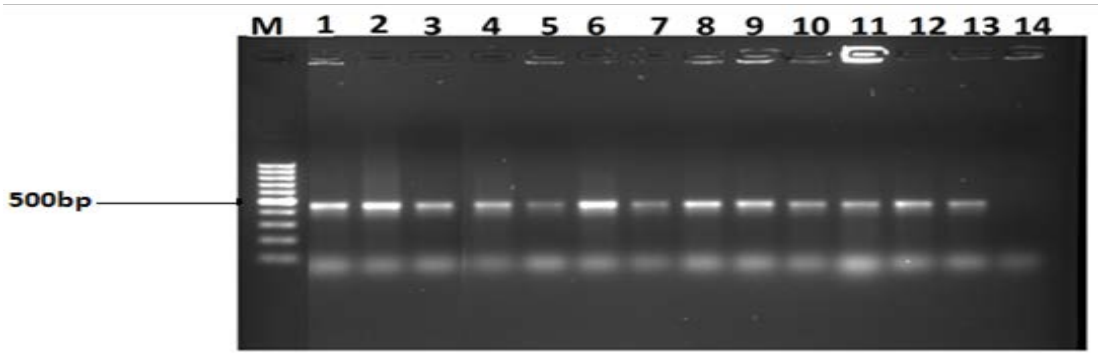
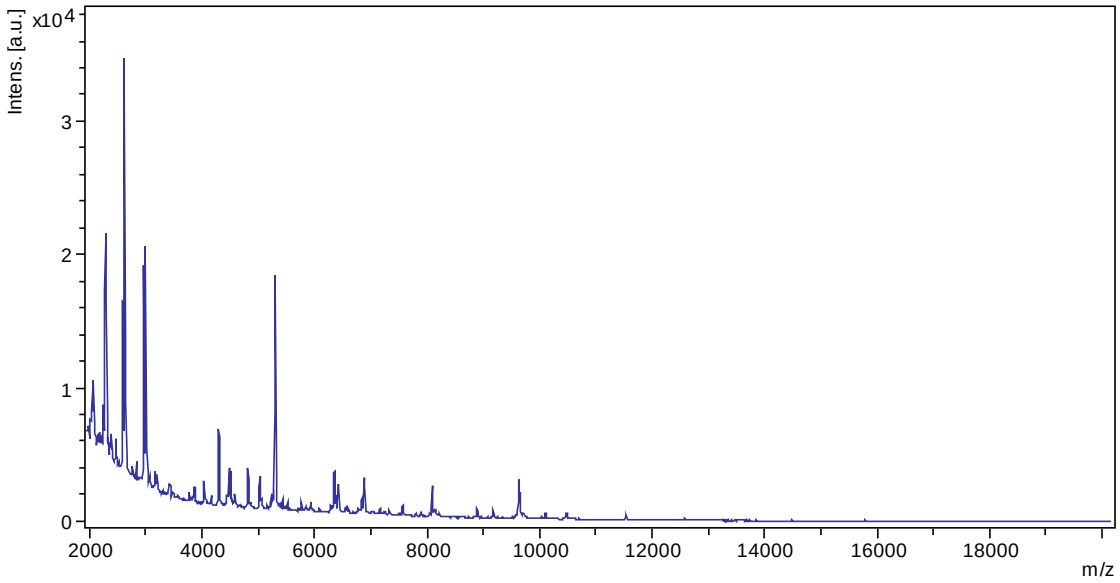


Figure S3. Agarose gel electrophoresis analysis for the *sec* gene in *S. aureus* isolates. Lane M = 100bp DNA maker, Lanes 1–13 = *S. aureus* isolates, lane 14 = negative control.

Isolate Number	Score Value	Identity based on MALDI-TOF MS analysis Best Match	Score Value	Identity based on MALDI-TOF MS analysis Second Best Match
1RO3	2.234	*Staphylococcus aureus*	2.073	*Staphylococcus aureus*



1RO4	2.097	*Staphylococcus aureus*	1.936	*Staphylococcus aureus*

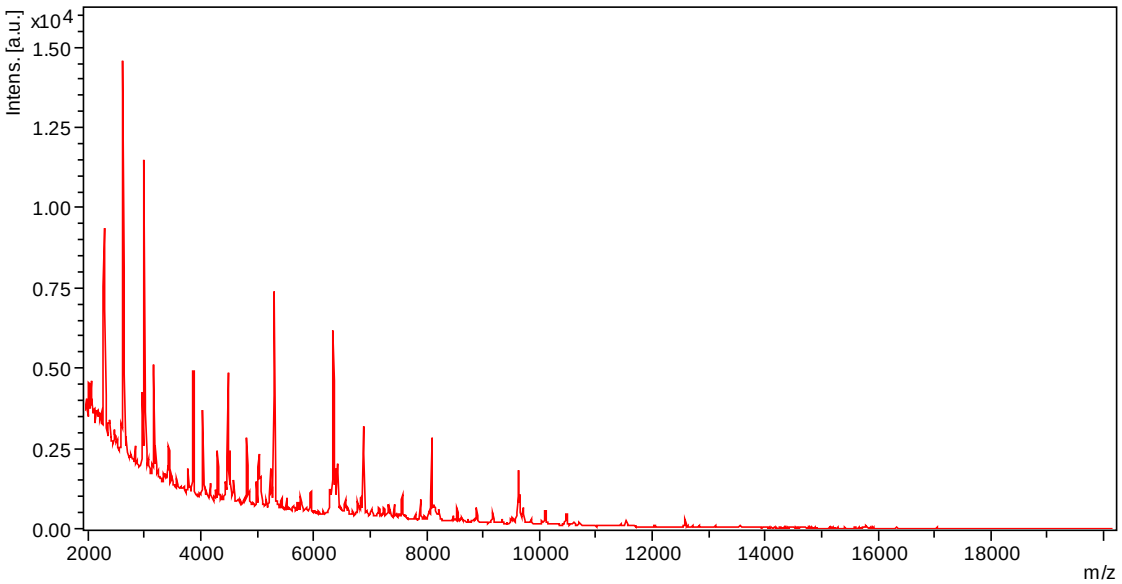


Figure S4. A representative mass spectral profiles of *S. aureus* isolated from milk obtained from Rooigrond.