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## Molecular Detection of the clumping factor (fibrinogen receptor) in the Enterotoxigenic *S. aureus* isolated from Raw Milk and Traditional Cheese

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**Abstract**: The objective of this study was to determine the occurrence of the enterotoxigenic S. aureus within 205 raw milk and traditional cheese samples examined. The S. aureus strains isolated from raw milk and traditional cheese samples examined were 50 (58.8%, 50/85) and 55 (45.8%, 55/120) respectively however both camel milk and cream cheese samples had not any S. aureus detected. The isolated S. aureus were screened for the presence of the clumping factor encoding gene (clfA gene) by PCR; all of the isolated 105 (100%, 105/105) S. aureus strains carried the *clfA* gene. The isolated S. aureus were molecular screened for the presence of the staphylococcal enterotoxin encoding genes (SEs); Sea, Seb, Sec, Sed, and See by multiplex PCR; 6 (5.7%, 6 /105), 4 (3.8%, 4 /105), and 3 (2.9%, 3 /105) carried the, Seb, See, Sed genes respectively. The detection of the 13 (12.4%, 13/105) enterotoxigenic S. aureus strain in the present investigation is considered a potential public health hazard which should be taken into consideration to find the possible strategies for prevention. The most frequent enterotoxin encoding genes detected were seb 6 (5.7%, 6/105), see 4 (3.8%, 4/105), and sed 3 (2.9%, 3/105) respectively. There was not found any S. aureus carried neither for Sea nor Sec genes. Keywords : Enterotoxigenic, S. aureus, clumping factor, clfA, Sea, Seb, Sec, Sed, See, Milk, Cheese.

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