

CAPSULAR TYPING OF *Staphylococcus aureus* ISOLATES FROM CAMEL AND OTHER DOMESTIC ANIMALS USING DUPLEX POLYMERASE CHAIN REACTION

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ABSTRACT

The present study reports successful development of duplex PCR to detect *cap5K* and *cap8K* genes in single PCR reaction in 102 *S. aureus* isolates obtained in our study. The *cap5K* gene was detected in 54 (52.94%) isolates with single amplicon of 361bp, *cap8K* in 33 (32.3%) isolates with 173bp amplicon, both genes were detected in 12 (11.76%) isolates with both amplicons whereas 3 isolates (one each from dog, buffalo and cattle) were nontypeable. Among 8 camel isolates, 5 were found to be positive for *cap5K* gene, 2 isolates were positive for *cap8K* gene and one isolate with both genes.

Key words: Camel capsular gene (*cap5K* and *cap8K*), duplex PCR camel, *Staphylococcus aureus*