

PULSED FIELD GEL ELECTROPHORESIS CHROMOSOMAL DNA RESTRICTION PATTERNS OF *STAPHYLOCOCCUS AUREUS* ISOLATED FROM CHICKENS

R. Rind¹, J. F. Ross², D. H. Kalhoro¹, H. Baloch¹ and A. B. Kalhoro³

¹Department of Veterinary Microbiology, Sindh Agriculture University,
Tandojam, Pakistan

²University of Edinburgh, UK

³Department of Veterinary Surgery and Obstetrics, Sindh Agriculture University, Tandojam, Pakistan

ABSTRACT

A study on population and clonal variation analysis of DNA of *Staphylococcus aureus* isolated from chickens was carried out. All 50 strains of *Staphylococcus aureus* were processed for DNA clonal variation by pulsed field gel electrophoresis (PFGE). Pulsed field gel electrophoresis identified DNA clonal variation among the strains of *Staphylococcus aureus*. The strains showed difference in their numbers, size, patterns and arrangement of DNA bands. Three to four band differences were seen among the strains and therefore the strains were divided into 10 main groups and designated as A, B, C, D, E, F, G, H, I, J and also recognized as 3 biotypes.

Keywords: Chickens, colonial variation, DNA bands, PFGE, *Staphylococcus aureus*