

Isolation and Characterization of the Total DNA for *Staphylococcus aureus* Isolated from Surgical Wound Infections, Non Patients Nares, and Urinary Tract Infections

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ABSTRACT

A total of 60 samples were isolated from surgical wound infections, nares, and UTI's. Eight samples were positive for *Staphylococcus aureus* biochemical tests. These samples were collected from the Dr. Khalid General hospital in Koya city.

Analysis of plasmids that digested by *EcoRI* and *Hind III* showed that plasmids conferring different resistance phenotypes showed different restriction profiles, while plasmids conferring similar resistance phenotypes may have shared one or more bands in common.

Generally, *Staphylococcus aureus* isolates were highly diverse, as shown by their differing chromosome and plasmid patterns, and antibiotic resistance profiles. Plasmids isolated from surgical wound infections showed similarity with plasmids isolated from urinary tract infections depending on the antibiotic resistance and deportation gel electrophoresis. There was no similarity between the plasmids isolated from isolates of non pathogenic and pathogenic state.

Staphylococcus aureus

الملخص

60

Staphylococcus aureus

HindIII EcoRI

