

## Protective ability of locally extracted Protein A against pathogenic organisms

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### Summary

This study was conducted to find out the ability of Protein A obtained from a local isolate of *Staphylococcus aureus* to protect rats against infection by pathogenic organisms. A good amount (5000µg) of Protein A was extracted from a small quantity (approximately 40g) of *Staphylococcus aureus* culture using lysostaphin technique. This extract was found to have protective property against pathogenic *Escherichia coli* and *Pseudomonas aeruginosa* in rats even at a low concentration of 50µg. The crude Protein A extract also compared favourably with imported standard Protein A in the study.

**Keywords:** *Staphylococcus aureus*, Protein A extract, pathogenic organisms.

### Résumé

Cette étude était conduite pour rechercher l'habilité de la protéine A obtenue d'un isolat local de *Staphylocoque aureus* à protéger les rats contre l'infection des microorganismes pathogéniques. Une quantité importante (5000µg) de Protéine A était extraite de 40g de culture de *Staphylocoque aureus* utilisant la technique de lysostaphine. Cet extrait démontrait une propriété protectrice contre *Escherichia coli* et *Pseudomonas aeruginose* pathogénique chez les rats a la concentration faible de 50µg. L'extrait pure de protéine A était favorablement comparable a la protéine A standard importee

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