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The Detection of Staphylococcus aureus in Swiftlets' Nest Using Immunohistochemistry (Streptavidin Biotin)

Abstract

A study to detect the presence of Staphylococcus aureus in swiftlets' nest using immunohistochemistry (Streptavidin biotin Complex) has been successfully done. Tissue and supernatant were made from the nest, and the presence of the bacteria Staphylococcus aureus was detected by means of immunohistochemical method. As positive control, we used Staphylococcus aureus culture, while for negative control we replaced Staphylococcus aureus monoclonal antibody with Phospat Buffer Saline (PBS). The result showed that staining with Staphylococcus aureus monoclonal antibody in swiftlets' nest tissue revealed the presence of Staphylococcus aureus as a brownish group or cluster, resulting from the reaction of enzymes and chromogen in Streptavidin Biotin Complex. Based on this study, it can be concluded that immunohistochemical method (Streptavidin Biotin Complex) can be used to detect the presence of Staphylococcus aureus in swiftlets' nest.

Keyword : swiftlets', nest, S., aureus, immunohistochemistry, ,

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