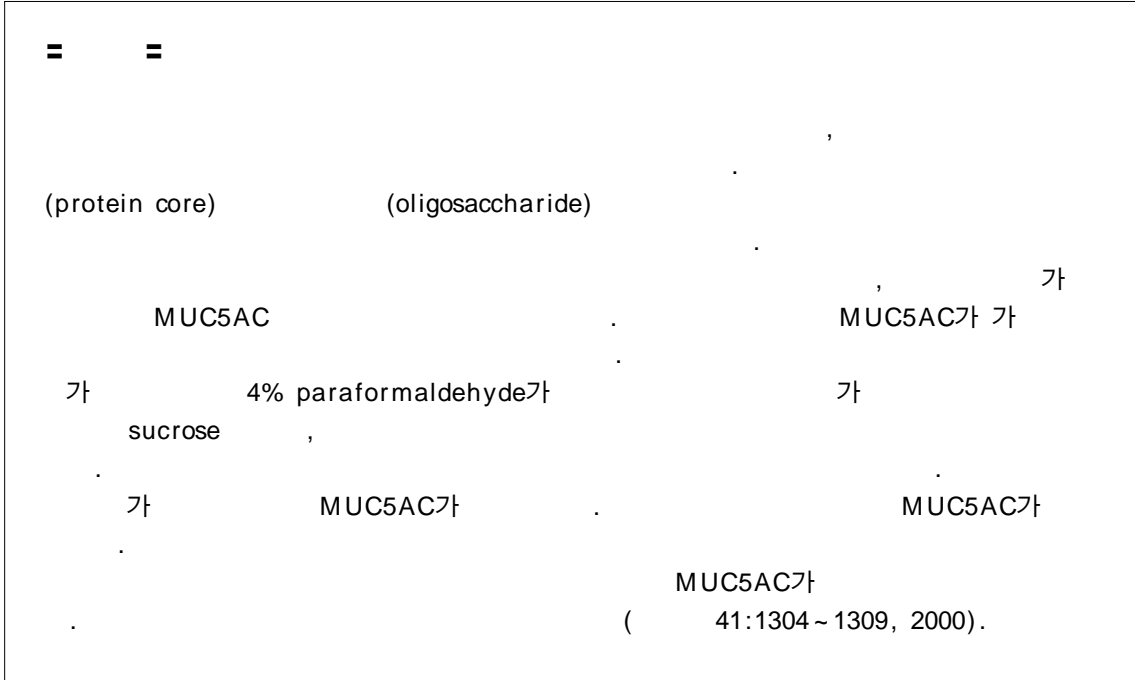


MUC5AC

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≡ Abstract ≡

The Characteristics of MUC5AC in the Corneal Tear Film

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 Su Yun Jeong, M.D.³, Je Kyung Seong, D.V.M.³, Eung Kweon Kim, M.D.^{1,4}

The mucous layer located on the cornea epithelial surface is mainly composed of mucin. It is unique in being composed of a central protein backbone surrounded by an outermost dense oligosaccharide matrix, yet its precise composition is still unknown.

Conjunctival goblet cells have been known to express the mucin MUC5AC. We attempted to reveal the presence of the secretory mucin MUC5AC as a component of the mucous layer in the rabbit corneal tear film .

An antibody to a MUC5AC peptide was used to detect the MUC5AC mucin present in the tear film by immunohistochemistry. Human conjunctival impression cytology and immunohistochemistry were done with the same antibody.

The MUC5AC mucin was observed in the precorneal tear film and conjunctival goblet cells by immunohistochemistry. The MUC5AC mucin is a component of the mucous layer and is produced by the goblet cells of conjunctiva(J Korean Ophthalmol Soc 41:1304~1309, 2000).

Key Words : Cornea, Tear film, Mucin, MUC5AC

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