

Antibodi monoklonal streptokokkus mutans 1 (c) 67 kDa dalam pasta gigi bahan dasar untuk menghambat pertumbuhan streptokokus mutans

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Abstrak

Prevention of dental caries is still continuing, because the prevalence caries is high. There was many methods to prevent dental caries etc, dental education, oral hygiene, special method on tooth brushing, water fluoridation, fissure sealant and later on the passive immunization with monoclonal antibodies. The purpose of this study was to investigate about monoclonal antibodies IgA, IgG1 and IgG3 against Streptococcus mutans 1 (c) in basic paste for inhibiting the growth Streptococcus mutans. The monoclonal antibodies were IgA Ab, IgG1 Ab and IgG3 Ab. Formula basic paste from PT "X" contained Aqua, Sorbitol, Nipagin, Dicalcium Phosphat, Titanium Dioxid, Sodium Carboxyl, Methyl Sel, Sodium Lauryl Sulfate and Sacarin. Basic paste was mixed with monoclonal antibodies IgA, IgG1 and IgG3 in room temperature (27°C), then to investigate zone of inhibition from these toothpaste with Wistreich and Lochtman methods. The data obtained in this study was analyzed with one way Anova and LSD. The result showed that there was a significant differences between basic paste with or without monoclonal antibodies. From the data analyzed in this study it can be concluded that monoclonal antibodies against S.mutans 1 (c) could be formulation with basic paste.