

Development of DNA Aptamer based detection assay for Detection of *Streptococcus mutans*

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Streptococcus mutans is regarded as the most cariogenic organism in the oral and is implicated in all types of dental caries. In this study, we developed the aptamer-based detection assay such as ELISA. Therefore, this *S. mutans* specific aptamer and its assay method with high specificity can be used as an alternative method for the fast and precise detection of oral disease. This work was carried out with the support of "Cooperative Research Program for Agriculture Science & Technology Development (Project title: Risk Assessment Research and Development of Rapid Diagnostic Method for Biological, Chemical and Environmental Animal Disease, Project No: PJ01052301) Rural Development Administration, Republic of Korea. This work was supported by the Human Resource Training Program for Regional Innovation and Creativity through the Ministry of Education and National Research Foundation of Korea(NRF-2015H1C1A1035921).