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**Effectiveness of Fucoidan Extract from Brown Algae to Inhibit
Bacteria Causes of Oral Cavity Damage**

Sys Rev Pharm 2020;11(10):686-693

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ABSTRACT

EFFECTIVENESS OF FUCOIDAN EXTRACT FROM BROWN ALGAE TO INHIBIT BACTERIA CAUSES OF ORAL CAVITY DAMAGE

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Introduction: Dental caries is a disease in the hard tissue of teeth damaged by enamel and dentin which is caused by the activity of microorganisms such as mutant *Streptococcus*. Periodontal disease is an inflammatory condition that affects the tissue around the teeth, one of the causes of which is microorganisms such as *Porphyromonas gingivalis*. Various antibacterial compounds that have been effective can be found in the extraction process, one of which is fucoidan extract in brown algae. To inhibit bacterial growth, fucoidan compounds contained in brown algae can be used. **Objective:** To determine the ability of fucoidan extract from brown algae to inhibit the growth of bacteria that cause oral cavity damage. **Method :** Literature review method. Literature searches are obtained from several literature study sources related to the topics to be discussed. Synthesize information from literature / journals which will be used as a reference by making a table. After that, conduct a literature review and analyze the similarities and differences of the literature. **Result/ Discussion:** Fucoidan extract from brown algae has the ability to inhibit bacteria that cause oral cavity damage, namely *Streptococcus mutans*, *Porphyromonas gingivalis* and *Fusobacterium*. **Conclusion:** Fucoidan extract from brown algae can reduce oral pathogens and have antibacterial activity.

Keyword : Brown algae, Fucoidan, Caries, Periodontal disease, *Streptococcus mutan*, *Porphyromonas gingivalis*, *Fusobacterium nucleatum*.

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