In this study, plant oils of Hypericum perforatum, Sesamum indicum, Nigella sativa were investigated for their in vitro antibacterial activity against Vibrio anguillarum and Lactococcus garvieae. Antibacterial activity was found with oil of Nigella sativa. It was determined formed on the diameter of inhibition (inhibition zone: 18 mm) of the oil against Vibrio anguillarum and Lactococcus garvieae pathogens. Plant oils of Hypericum perforatum, Sesamum indicum were not found the antibacterial effect against the
bacterial fish pathogens. Antibacterial and immunostimulant feature of this plant is known to be therapeutic for human health in many disease also we were found to be effective against fish pathogens. As a result of the studies,

Nigella sativa oil were determined to be potentially be used in treatment against vibriosis and lactococcosis.

**Keywords:**

Nigella sativa, medicinal plants, antibacterial activity, agar well diffusion.

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