

Microorganisms and Biofilms

LBP.LS.P08

Analysis of Microbial Populations by Fluorescein in-SITU Hybridization (FISH) in water samples of Lake Van

M.B. MUTLU¹, A. Penezođlu¹

¹Anadolu University, Biology, Eskisehir, Turkey

mbmutlu@anadolu.edu.tr

Alkaliphilic microorganisms are important group of extremophilic microorganisms. Van Lake is one of the largest soda lake in the world and harboring extreme conditions. However its microbial diversity has never yet been studied in detailed. In this study, water samples from different locations of Van Lake were analysed by Fluorescein in-situ hybridization (FISH) technique. Two different water samples were collected from the lake (Tatvan and Edremit). *Archaea* and *Bacteria* spesific probes were used in FISH technique. Total cell number was found by DAPI staining. DAPI staining results showed that the density of bacteria is much more in Edremit water samples. The prokaryotic community of Van Lake samples were found to be dominated by *Bacteria*.