PP 024

Isolation and identification of bacteria lysing Anabaena cylindrica from Blooming reservoirs

Yup Hong^{13*}, Kyu-Chul Shin¹³, Min-Seong Kim¹³, Myung-Soo Han¹²³ and Yong-Keel Choi¹³

Department of Life Science¹ and Environmental Science², Hanyang University, National Research Laboratory for Water Environmental & Restoration³

To isolate the bacteria lysing cyanobacteria, the sediment samples were collected from Dochang and Pal'tang Reservoir and Seokchon Lake. Each 100 μ l of samples were smeared on the Anabaena cylindrica lawn and incubated in light chamber on 28°C, 3000 lux for 11 days. Bacteria having cyanobacteria-lysing activity were isolated from the samples of Seokchon reservoir. Confirmation of accurate cyanobacteria-lysing activity was carried out to measure chlorophyll a and bacterial cell counting in mixed culture of Anabaena cylindrica and bacteria. To identify bacteria, 16S rDNA sequencing was performed by automated DNA sequencer for their taxonomic relations. The bacterium was identified as a Bacillus sp. MK 03 referring to genbank database.