EFFECT OF TREATMENT WITH LEAD SULPHATE ON SOIL MYCOBIOTA

Pradip Kumar and M.U. Charaya

Microbiology Laboratory, Department of Botany, CCS University, Meerut- 250 005
E-mail: panwarpradeep@gmail.com

Abstract: Nineteen species of fungi were isolated from control soils and that treated with lead sulphate solutions (20ppm, 40ppm, 100ppm and 250ppm) for 90 days. Treatment with lead sulphate did not result in substantial decrease in the number of species isolated. Greater number of isolates was obtained from Pb-treated soils except in general. The species which could tolerate higher concentration of lead sulphate for 90 days included Aspergillus flavus, Aspergillus niger and Trichoderma lignorum. Aspergillus fumigatus and Botryotrichum piliferum exhibited remarkable resistance to lead as these dominated the soil treated with lead sulphate solution for 90 days.

Keywords: Heavy metals, Lead pollution, Metal tolerant fungi, Soil microflora.

REFERENCES


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