

ABSTRACT

Present study was designed to determine heavy metal biosorption potentials of two fungi *Aspergillus niger* and *Rhizopus arrhizus*. Biosorption studies were performed for the removal of various concentrations of three heavy metals (chromium, nickel and lead) as toxicants. Various concentrations of standard solutions of Chromium, Nickel and Lead were prepared i.e. 10ppm, 20ppm, 30ppm, 40ppm and 50ppm to make the calibration curve by the atomic biosorption. The operational parameters chosen were initial metal ions concentration, time factor, pH factor, biosorbent dosage and temperature. The results show fairly high adsorptive capacities for all the metals within the settings of operational parameters. The removal efficiency followed the order $Pb > Ni > Cr$.