

عنوان مقاله:

Bioremoval of lead by isolated Pseudomonas sp of oil contaminated soils, Khuzestan

محل انتشار:

هشتمین همایش بیوتکنولوژی جمهوری اسلامی ایران و چهارمین همایش ملی امنیت زیستی (سال: 1392)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

In the past decade, enter the pollutants such as heavy metals have been increased in vital ecosystem. That is serious danger for life on the Earth. Heavy metals in most parts of the world are pollutants in various physicochemical forms and should purify. In this research we evaluate some methods for biological treatment for lead removal by related resistant strains. To conduct the study, five samples of oil contaminated soils of Khuzestan zones were collected under sterile conditions and transferred to laboratory immediately. The soil samples were homogenized and diluted by sterile saline till to 10⁻¹⁰ and cultured on Luria Bertani agar medium containing 5ppm lead nitrate. Resistant strains were isolated after 24 hours of incubation, and for isolating appropriate strains, cultured on Macconkey agar medium. Isolated bacteria were identified by biochemical tests. From total of 24 strains of isolated Pseudomonas, 10 strains were resistant to lead. Then, the MIC test was used for screening of resistant strains on Luria Bertani agar medium. Absorption tests of metal were A top strain was removed 90% of lead

کلمات کلیدی:

bioremoval, chromium, lead, Pseudomonas, oil contaminated soil

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