

عنوان مقاله:

Biosorption of heavy metals by industrial strain of *Saccharomyces cerevisiae*

محل انتشار:

اولین کنفرانس بین المللی تصفیه فاضلاب و بازیافت آب، فناوری ها و یافته های نو (سال: 1388)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

Today lead pollution has become an environmental problem. Widely is used in many industrial applications such as storage battery manufacturing, etc. Through the water and food into the body and in the bone instead of calcium gathering and it will be on nervous system and the hemoglobin creates disorder. One of the methods for cleaning environmental lead is the biosorption. The microorganism suitable for this work is *Saccharomyces cerevisiae*. In this study is used of Atomic Adsorption Spectrophotometer system for uptake rate. Lead rate sorption by industrial strain of *Saccharomyces cerevisiae* (The essence of paste Lorestan factory) was 45%. Compared the effects different factors on biosorption such as pH, concentration Pb (II), etc. The rate uptake lead is higher by living cells than dead cells. In this study is used of Agar and calcium alginate for immobilization strain. The results showed that the rate uptake by immobilized cells was nearly well.

کلمات کلیدی:

Biosorption, Immobilization, Lead

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