

عنوان مقاله:

Isolation of Kocuria sp. IRK1 from oil contaminated soil of Kermanshah: a novel poly (3-hydroxybutyrate) producing bacterium

محل انتشار:

کنگره ملی ذخایر ژنتیکی و زیستی (سال: 1390)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Mojtaba Taran - *Department of Biology, Faculty of Science, Razi University, Kermanshah*

Rezvan Tavakoli - *Department of Microbiology, Faculty of Science, Ghom Islamic Azad University, Ghom*

Arina Monazah

خلاصه مقاله:

The bacterium used in this study was Kocuria sp. IRK1 isolated from soil of Naftshahr, Kermanshah, Iran. Using Taguchi methodology, four important independent parameters (glycerol, NH₄Cl and KH₂PO₄ and temperature) were evaluated for their individual and interactive effects on poly (3-hydroxybutyrate) production. According to Taguchi approach, the optimum conditions at which high poly (3-hydroxybutyrate) production by Kocuria sp. IRK1 could be achieved were observed to be in the presence of glycerol 1% (w/v), NH₄Cl 0.2% (w/v), KH₂PO₄ 0.1% (w/v) and temperature 37 °C. We can conclude that Kocuria sp. IRK1 as a novel bacterium has a high potential for synthesis of poly (3-hydroxybutyrate) from glycerol

کلمات کلیدی:

poly (3-hydroxybutyrate), Kocuria, oil contaminated soil

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