عنوان مقاله:

NEW CULTURE MEDIUM FOR MODERATE THERMOPHILIC BACTERIA ISOLATED FROM SARCHESHMEH COPPER MINE

محل انتشار:

نوزدهمین کنگره بین المللی میکروب شناسی ایران (سال: 1397)

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خلاصه مقاله:

Background and Aim:The application of microorganisms in the dissolution of sulfide methods has a long history. Bacteria especially moderate thermophilic organisms play an important role in the process of the addition of metal sulfides to accelerate the dissolution of valuable metal species from sulfide ores.Methods:The purpose of this study was to find a suitable culture medium for the growth and isolation of the valuable bacteria capable in dissolution of sulfide methods. So, water and soil samples from the cold and hot season from Sarcheshmeh copper mine in 2016-2017 screened and several culture media for this purpose have been prepared. After incubation at 50˚C and isolation of bacteria, the PCR method was carried outResults:The result showed DSM 665 culture media was determined as the golden media. In this experimental study, it was proved that the culture media that do not create high temperature in the stability of the environment and contain a lot of Fe2+, yeast extract and sodium thiosulfate are very suitable compound for the growth of these bacteria.Conclusion:The DSM 665 culture media for isolation of moderate thermophilic bacteria from copper mines is recommended.

کلمات کلیدی:

DSM 665 culture media,copper mine, Moderate thermophilic bacteria, PCR