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A New Primer Pair in ITS1 Region for Molecular Studies on Echinococcus granulosus

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Abstract:

Background: Echinococcus granulosus, the causative agent of cystic echinococcosis has long been recognized as having a high degree of genetic divergence. The strains characterization seems to be essential for the establishment of a preventive and control strategy in every endemic area. Using DNA based methods for strain /genotype characterizations of E. granulosus have some difficulties, especially access to an efficient and pure concentration of DNA and proper primers. Methods: Using grinder method, a pure and high concentration DNA was extracted from 10 human hydatid cysts collected from Isfahan (central Iran) hospitals, and processed for PCR reaction. Results: Using DNASIS, the primers were designed in internal transcribed spacer 1 (ITS1) region, following analysis of 30 E. granulosus nucleotide sequences, extracted from gene bank. Conclusion: This new and specific E. granulosus primer which amplified DNA thoroughly can be applied for molecular studies on echinococcosis.

Keywords:

Primer design , ITS1 , DNASIS

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