



Avaliação de protocolos de extração de DNA genômico na verificação da presença de *Listeria monocytogenes* por PCR [

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text (article)

Analítica

Listeria monocytogenes is a pathogen transmitted by foods that can cause serious illness, especially in immunocompromised individuals. The rapid and accurate identification of these bacteria in foods is a great ally in preventing its transmission. The molecular methods have proven to be effective for that; however, is still difficult to determine the optimal DNA extraction technique based on the characteristics of each microorganism. The efficiency of PCR depends on satisfactory amounts and quality of DNA. This study aimed to evaluate two DNA extraction techniques, CTAB detergent and thermal lysis. Four strains of *L. monocytogenes* were used, one ATCC 19117 and three isolated industrial environment (thinning of a slaughterhouse), previously identified by conventional methods and confirmed by molecular methods. The extraction by thermal lysis showed satisfactory results, providing visualization of visible bands and without interfering in the PCR reaction. The thermal lysis proved to be an adequate extraction protocol, as well as providing the amounts and quality of DNA required for the amplification, being simple, fast and an inexpensive technique

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