

## NASBA Isothermal Technique: a Novel Tool for Mycobacterium Tuberculosis Diagnosis

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### **Abstract**

**Background and Objectives:** rapid, accurate and cost effective diagnosis of infectious and non infectious diseases is an essential step for treatment process. Nowadays, in Line with scientific progression in molecular biology, genetics and biochemistry which are based on biotechnology and genetic engineering aspects, new branch of medicine entitled molecular medicine is being derived. It can be helpful in three areas of diagnosis, prophylaxis and treatment. This new branch is going to identify further complexity of diseases and to present efficient solutions for growing health criteria. Therefore, updating and being familiar with the new procedures related to diagnosis, prophylaxis and therapy are necessary for our society.

In this paper, we are trying to introduce NASBA technology which has a high potential, at genome level, in recognizing specific characteristic and unique genetic markers of microorganisms. This technology has numerous benefits for easy detection of infectious diseases such as tuberculosis. Furthermore, we review the methods of tuberculosis detection.

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