

## A Simple, Rapid and Inexpensive Methods for Isolation of DNA from *Nocardia* Spp. Using Laundry Detergent

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**Background & Objectives:** Rapid diagnosis of Nocardiosis and early treatment, is necessary to use molecular Methods that Requires DNA extraction of nocardia. Since different methods for extracting DNA from microorganisms are time consuming and laborious, and the use of chemical compounds separately in routine methods of DNA extraction is not economical. In order to minimize time and cost required for DNA extracted from nocardia is the methods of DNA extraction with five enzyme washing machine powder is used. This methods without harmful effects on the genome may affect the bacterial cell wall. Introduced a quick and inexpensive methods for DNA extraction from nocardia.

**Methods:** DNA extraction from five enzyme washing machine powder taj brand (containing amylase, protease, lipase, mannanase and cellulase), and to review and confirm the presence of DNA from agarose gel and specific primers for polymerase chain reaction is used.

**Results:** DNA extraction and analysis of results obtained by electrophoresis of PCR products showed that in this way DNA is extracted.

**Conclusion:** According to the results obtained using the washing machine powder for DNA extraction can be used as a rapid and inexpensive alternative than routine procedures.

**Keywords:** Nocardia; Genome; Extraction