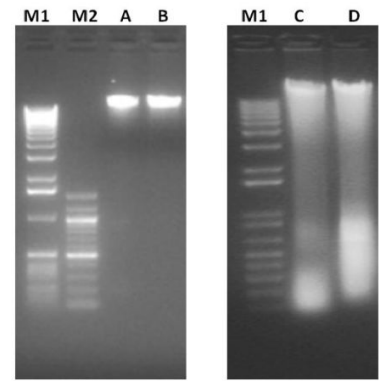


PENDING**(IN201821027800)**

A method for rapid isolation of nucleic acid from gram-negative bacteria



NEED

Isolating high-quality bacterial nucleic acid is crucial for diagnostics and research. What if there was a method that ensures pure, intact DNA from gram-negative bacteria with minimal contamination?

TECHNOLOGY OVERVIEW

This invention provides a method for isolating intact nucleic acids from gram-negative bacteria. By using sodium phosphate buffer, acid-washed glass beads, and isopropanol, the process efficiently separates bacterial nucleic acids, ensuring high-quality genomic DNA for research and diagnostics.

TECHNOLOGY KEY FEATURES

1) Uses sodium phosphate buffer and glass beads for bacterial lysis. 2) High-purity genomic DNA isolation. 3) Utilizes isopropanol for nucleic acid purification. 4) Minimizes contamination for accurate results. 5) Works with environmental water samples.

[Read more here](#)

MARKET ANALYSIS

The global molecular diagnostics market is projected to grow at a CAGR of 7.4%, reaching \$16.4 billion by 2033. The increasing need for rapid and precise diagnostics, particularly for infectious diseases, drives this demand. (Source: Market Data Forecast, 2023)

Target Industries

1) Molecular Diagnostics Industry focusing on bacterial DNA testing. 2) Biotechnology Companies offering DNA isolation kits for research. 3) Environmental Monitoring Firms detecting bacterial contamination in water.

AT A GLANCE

- SDG 3 (Good Health and Well-being), SDG 6 (Clean Water and Sanitation), SDG 9 (Industry, Innovation, and Infrastructure)

Technology is available for licensing/ co-development.

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