

Method for Rapid Detection and Characterization of Bacteria Colonies

Track Code: 64142

Categories:

- Food and Nutrition

Keywords:

- Bacterial Identification
- Bacterial Pathogens
- Food and Nutrition
- Food Safety
- Light Scattering
- Listeria
- Optics

Researchers at Purdue have developed a method to differentiate human pathogenic listeria monocytogenes from nonpathogenic species of Listeria in less than 48 hours by measuring light scattering patterns of bacterial colonies. Potential uses include monitoring bacterial pathogens in food, water, and air. This method is a simple, single-step alternative. In addition to Listeria, rapid detection and characterization of other bacteria, including E. coli, is possible.

Advantages:

- Simple, single-step alternative
- Results in less time
- Works on other bacteria

Potential Applications:

- Bacterial pathogen detection
- Food safety
- Water and air safety

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Intellectual Property:

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