

## FOURIER TRANSFORM INFRARED SPECTROSCOPY IN FOOD MICROBIOLOGY%0A

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## Fourier Transform Infrared Spectroscopy in Food Microbiology

Vibrational spectroscopy techniques, which have traditionally been used to provide non-destructive, rapid, and relevant information on microbial systematics, are useful for classification and identification. In conjunction with advanced chemometrics, infrared spectroscopy enables the biochemical

### Fourier transform infrared spectroscopy in food microbiology

The most extensive application of Fourier transform infrared (FT-IR) spectroscopy in food microbiology has been the identification and characterization of bacteria, yeast, fungi, and algae.

### Fourier transform infrared (FT-IR) spectroscopy: A rapid ...

With the advent of Fourier transform infrared spectroscopy (FT-IR) and computational analysis in the late 1980s and 1990s, Naumann and co-workers reintroduced FT-IR methods for in-situ analysis of bacterial cells and complex spectral analysis to identify, differentiate, and classify bacteria [4-8].

### Fourier-transform infrared spectroscopy - Wikipedia

Fourier-transform infrared spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption or emission of a solid, liquid or gas.

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In: Ferraro JR, Basile LJ (eds) Fourier transform infrared spectroscopy - applications to chemical systems, Vol. 4. Academic Press, New York, 275-302 Google Scholar

Ferraro JR, Rein AJ (1985) Application of diffuse reflectance spectroscopy in the far-infrared region.

### Infrared Spectroscopy for Food Quality Analysis and ...

Fourier transform infrared spectroscopy (FTIR) spectroscopy is a method suitable for monitoring chemical properties of cell walls, and more specifically changes in the degree of esterification. Different chemical components and their location in strawberry achene, vascular bundles, and cortical cell walls have been studied by means of FTIR spectroscopy. FTIR spectroscopy can be successfully

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### Fourier Transform Infrared Spectroscopy (FTIR) Analysis

Fourier Transform Infrared Spectroscopy (FTIR) identifies chemical bonds in a molecule by producing an infrared absorption spectrum. The spectra produce a profile of the sample, a distinctive molecular fingerprint that can be used to screen and scan samples for many different components. FTIR is an effective analytical instrument for detecting functional groups and characterizing covalent bonding information.