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Czech Journal of

FOOD SCIENCE

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Czech J. Food Sci.

**Filip Z., Hermann S.,
Demnerová K.**

FT-IR spectroscopic characteristics of differently cultivated *Escherichia coli*

Czech J. Food Sci., 26 (2008): 458-463

FT-IR spectra were recorded of *Escherichia coli* cell mass with the aim of obtaining spectral traits possibly useful in a rapid detection and characterisation of this indicator bacterium. A well differentiated spectrum was obtained from the cell mass harvested in a stationary phase of growth, e.g., after 24 h, from a minimum nutrient broth. The cell mass, harvested either earlier or grown in nutrient solutions which contained an enhanced carbon or nitrogen concentrations delivered somewhat different IR spectra, apparently due to a higher content of nucleic acid components as related to other structural constituents of bacterial cells. Consequently, the FT-IR spectra of *E. coli*, although rather rapidly to collect,