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Czech J. Food Sci.

Hochel I., Škvor J.:

Characterisation of

antibodies for the immunochemical detection of *Enterobacter sakazakii*

Czech J. Food Sci., 27 (2009): 66-74

An indirect competitive enzyme immunoassay of *Enterobacter sakazakii* has been developed. The rabbit polyclonal antibodies to heat-labile or heat-stable antigen of the type strain *E. sakazakii* CNCTC 5739T were prepared for these purposes. The detection limits of enzyme immunoassays were within the range $0.6\text{--}14.4 \times 10^5$ cells/ml.

Antibodies raised to heat-labile antigen were serotype-specific. Although they contain non-specific IgG fractions binding periplasmatic and cytosol proteins, the interactions of these immunoglobulins are not manifested under conditions of ELISA developed.

Keywords:

Enterobacter sakazakii; heat-labile antigen; IgG; ELISA; cross-reactivity

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