



Advances in microbial food safety: 9. Advances in separation and concentration of microorganisms from food samples (Woodhead Publishing Series in Food Science, Technology and Nutrition)

S.H. Suh, L.-A. Jaykus, B. Brehm-Stecher

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Current methods for detecting bacterial pathogens from foods and the environment are slow. Although newer, more rapid detection techniques have been developed, they have insufficient sensitivity and produce residual matrix-associated inhibitory compounds. The detection of foodborne pathogens could be more rapid if the target cells were separated and concentrated before detection, a procedure known as pre-analytical sample processing. We review sample preparation techniques, focusing on target-specific methods. Unlike non-target-specific separation/concentration methods, these approaches use bioaffinity ligands, preventing co-precipitation of target pathogens with residual matrix components. Bioaffinity ligands such as bacteriophage, phage-derived biomolecules, nucleic acid/peptide aptamers, carbohydrate ligands, antimicrobial peptides and synthetic ligands are described. The use of bioaffinity ligands in pathogen detection is new and requires further development. Such ligands have a future in foodborne pathogen detection and may allow us to substitute culture-based methods with more rapid, yet sensitive non-cultural methods.

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