

College of Natural Resources and the Environment

University of Massachusetts Amherst

Safe and Secure Food and Fiber Systems

PCR Detection of *L. monocytogenes* & *E. coli*

Issue

Foodborne pathogens cause approximately 76 million illnesses, 325,000 hospitalizations, and 5,000 deaths each year. More than 200 known diseases are transmitted through food.

Impact

In order to combat these outbreaks of food poisoning, rapid and inexpensive methods of detection using the agglutination procedures described in this project will increase the number of assays performed on *Listeria monocytogenes* by a factor of 20.

Primary impact area(s)

- Research
- Education
- Extension

Funding sources

- Hatch Act

Topics

- Food Safety

Contacts

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