PURDUE
OFFICE OF TECHNOLOGY COMMERCIALIZATION

Innovation Infosheet
Downloaded August 17, 2022

Antibody for Listeria Detection

Track Code: 66083

Categories:
- Biomedical Engineering
- Food and Nutrition

Keywords:
- Antibodies
- Assays
- Biomedical Engineering
- Detection
- Food and Nutrition
- Food Industry
- Food Safety

Listeria monocytogenes (Listeria) is a foodborne pathogen that infects mainly pregnant women, newborns, older adults, and immunocompromised hosts. Methods for detecting Listeria are in high demand, and the most effective methods require highly selective antibodies.

Purdue University researchers have generated monoclonal antibodies (mAbs) against Listeria. Monoclonal antibodies are identical antibodies that all recognize the same epitope, a part of an antigen that is recognized by the immune system. These highly specific mAbs can be used in bioassays that detect Listeria in food, soil, water, or clinical specimens.

Advantages:
-Highly selective antibodies can be used for bioassays of other diagnostic tools

Potential Applications:
-Medical/Health
-Diagnostic testing
-Bioassay
-Food safety

People:
- Bhunia, Arun K (Project leader)
- Aleixo, Jose A. G.
- Mendonca, Marcelo

Intellectual Property:

Contact OTC:

Purdue Office of Technology Commercialization
The Convergence Center
101 Foundry Drive, Suite 2500
West Lafayette, IN 47906

Phone: (765) 588-3475
Fax: (765) 463-3486
Email: otcip@prf.org