

An Antibody for the Detection of Protein Levels in Bacterial Cells

Track Code: 2016-LUO-67450

Categories:

- Biotechnology

Keywords:

- Antibodies
- Bacterial Pathogens
- Biotechnology

Scientific experiments rely upon conditions being the same across all trials except for the variable being tested. This can be difficult in a microbiological setting due to the very nature of microorganisms, specifically bacteria. With bacteria being so small, it is virtually impossible to acquire a specific count of the total bacteria involved in an experiment. This problem is usually addressed with the use of components of stable complex or other cell components, which are not reliable.

Researchers at Purdue University have invented a new method of comparing the number of bacteria in experiments. The solution is based around the development of an antibody against the bacterial metabolic enzyme isocitrate dehydrogenase (ICDH). The antibody can recognize ICDH from a wide range of bacteria, including both gram positive and gram negative types. This will allow scientists in numerous research fields to get more accurate initial bacteria counts, which will improve experiment setups.

People:

- Luo, Zhao-Qing (Project leader)

Intellectual Property:

Application Date: (None)

Type: Provisional-Patent

Country of Filing: United States

Patent Number: (None)

Issue Date: (None)

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