



TECHNOLOGY

A Novel Salmonella Strain For Vaccinating Chicken

OVERVIEW

Background

Salmonella outbreaks among poultry flocks result not only in direct losses to the farmer but also indirect costs to the entire industry due to loss of consumer confidence at the break of news about an outbreak. According to Center for Disease Control (CDC), 8 known outbreaks resulted in the US in 2016 alone. The passage of infections to end-consumers eventually compounds the economic burden of the disease. Effective preventive strategies need to be adopted to avoid future outbreaks.

Innovative Technology

Researchers at the University of Maryland have generated a novel Salmonella strain that is not only inactivated but also highly immunogenic and drives production of pro-inflammatory cytokines in chick cell lines, thus enabling effective immunization against the pathogen in chicken.

Advantages

- Retains capacity to adhere to host cells
- Highly immunogenic, thereby resulting in rapid and effective immunity against the pathogen
- Drives chicken cells to produce pro-inflammatory cytokines that can activate the immune system

Applications

- Vaccination of poultry against Salmonella

CONTACT INFO

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Additional Information

INSTITUTION

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PATENT STATUS

Pending

LICENSE STATUS

Contact OTC for licensing information

EXTERNAL RESOURCES

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