

An Oral Vaccine-Based Strategy To Prevent Bacterial Infectious Diarrhea

Published date: March 28, 2019

Technology description

Invention

This invention is an oral vaccination that aims to prevent bacterial infectious diarrhea. This oral vaccine induces a potent anti-pathogen immune response and has the potential to be utilized for a variety of bacterial strains that cause diarrhea.

Background

There are a large number of bacterial strains that result in infectious diarrhea ranging from E. coli to Salmonella. Bacterial strains that cause diarrhea kill roughly 1.31 million people on an annual basis, the large majority of which are children in developing countries. Currently, there is not a vaccine to prevent a wide array of infections.

Application area

Vaccine to treat bacterial infectious diseases that cause diarrhea

Advantages

Passive and safe

Prevents colonization of bacterial pathogens

For use on human and non-human populations

Aims at preventing a number of diarrhea-based illnesses

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