A DNA Vaccine Protecting Influenza D Virus Infection

Published date: July 24, 2018

Technology description

This is a consensus DNA vaccine providing protection against Influenza D in cattle.

Technology Description

This technology is a vaccine that provides protection against Influenza D (IDV). IDV is a major contributor to bovine respiratory disease complex (BRDC), one of the most commonly diagnosed cause of morbidity and mortality within the cattle industry. There are currently no vaccines which provide full and effective protection against BRDC. This vaccine is a DNA consensus vaccine that carries IDV hemagglutinin esterase fusion (HEF) protein. This vaccine increases neutralizing antibodies against IDV and prevents accumulation of two IDV lineages in guinea pigs.

Inventive Feature(s)

• Consensus DNA hemagglutinin esterase fusion (HEF) protein vaccine conferring resistance to Influenza D Virus

About NUtech Ventures

NUtech Ventures is the non-profit technology commercialization affiliate of the University of Nebraska–Lincoln. Our mission is to facilitate the commercialization and practical use of innovations generated through the research activities at the University of Nebraska.

Application area

• Animal Health: Vaccine

Advantages

Benefit(s)

• Increased Protection: Provides protection against IDV, thereby reducing cattle mortality by BRDC
• Efficient: Potentially protect against several different strains of IDV

Institution

University of Nebraska, Lincoln