Abstract

Foot-and-mouth disease (FMD) is a highly contagious viral infection of cloven hoofed animals continues to be a significant economic problem worldwide. Debate about the most effective way to respond to outbreaks of FMDV continues to center on the use of vaccines. In this paper, we present data showing that a concentrated antigen of FMDV adjuvanted with Montanide oil ISA 25, standard dose vaccine formulation can fully protect cattle against direct challenge with the virus in as little as 7 days and Cattle challenged 4 days after vaccination have reduced disease severity with some signs. These significant effects support the value of using the prepared oil adjuvant vaccine as a first line of defense against foot-and-mouth disease (FMD) outbreaks.

Key words: (FMD, vaccine, ISA 25, Emergency, challenge, Cattle)