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(54) Title: ERYSIPELOTHRIX RHUSIOPATHIAE-HAEMOPHILUS PARASUIS VACCINE AND METHODS OF USING THE
SAME

(57) Abstract: The present invention provides a composition and an improved single dose vaccine against *E. rhusiopathiae* and an improved single dose vaccine against *E. rhusiopathiae* and *H. parasuis* which provides one or more of the following: 1) confers effective immunity against *E. rhusiopathiae* and/or *H. parasuis*; 2) decreases the risk of developing clinical signs of *E. rhusiopathiae* and/or *H. parasuis* infection; 3) induces an immune response against *E. rhusiopathiae* and/or *H. parasuis*; and 4) has a DOI against *E. rhusiopathiae* and/or *H. parasuis* of at least four months. The composition or *E. rhusiopathiae* vaccine as well as the combined *E. rhusiopathiae*-*H. parasuis* composition or vaccine each includes a bacterial component of inactivated *E. rhusiopathiae* bacteria and a suitable adjuvant. The combined *E. rhusiopathiae*-*H. parasuis* composition or vaccine further includes an amount of *H. parasuis* antigen. The vaccines can be administered to animals in any conventional manner. The amount of the dose for intramuscular administration is preferably less than 5 ml. The amount of *E. rhusiopathiae* and/or *H. parasuis* antigen in each dose should be enough to induce an immune response in the animal receiving the vaccine or composition and will preferably confer effective immunity against and decrease the risk of developing clinical signs resulting from *E. rhusiopathiae* and/or *H. parasuis* infection for a suitable duration of immunity.



WO 2005/041890 A3