Study on the effect of Saponin as an Immune Stimulant in FMD Virus Inactivated Vaccine

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Abstract

Study of the effect of Saponin as an Immune Stimulant in inactivated F.M.D. vaccine. - 18 Calves were used in this study which are divided into ; 3 main groups: (A,B,C) - Group (A) : is divided into 3 subgroups G1, G2, G3 and each one contained 3 animals & vaccinated by F.M.D. Vaccine containing Img, 2mg, 4mg Saponin per vicinal dose subsequently. - Group (B) : is divided into 2 subgroups G1, G2 which were inoculated by 2 ml of gel containing Saponine as follow : - G1 : inoculated by 2 ml of gel containing 2 mg Saponin. - G2 : inoculated by 2 ml of gel containing 4 mg Saponin. - Group (C) : is used as Control group. Saponin stimulate both Cellular & Humeral Immunity and appear to work better with membrane derived or particular agents with stable antigen.

Keywords

Saponin, F.M.D, vaccine, Calves, Immunity.