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Isolation, Characterization, Comparative Analysis of Anti-Rabies Antibodies Raised in Chicken and Rabbit

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ABSTRACT

The study provides a platform to make chicken antibodies (IgY) an alternate source of antibodies to treat rabies infection in developing countries. The study also attempts to provide an overview of the possibility of replacing IgG (antisera) by IgY antibodies. Producing antibodies in a large scale in egg laying chickens is commercially feasible in view of their low body weight and high rate of egg production. It is relatively easy, economical and safe to collect eggs from hens compared to the bleeding the horses, rabbits and other mammals for their serum. HRIG (Human Rabies Immunoglobulin) and ERIG (Equine Rabies Immunoglobulin) are highly expensive and less abundant. In this study, we have analyzed the titer of IgY antibodies and compared with IgG antibodies raised in rabbits.

Keywords: Chicken antibodies, rabies antiserum, HRIG, ERIG.

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