

CHAPTER 5

CONCLUSION

Experiments on protective immunity was carried out with one strain of Pasteurella multocida isolated from duck which died of fowl cholera. The two types of vaccines prepared from this strain were formalin killed whole - cell vaccine and capsular polysaccharide vaccine. When rabbits were immunized as for the production of anti - whole cell and anti - capsular polysaccharide sera, the antibody response resulted in the production of high titers in agglutination and indirect hemagglutination.

1 LD₅₀ for mice of 20 gm body weight contained 6 cells (range 4 - 9 cells) of Pasteurella multocida. The mice died within 24 to 48 hours post - injection of organisms.

Whole cell and capsular polysaccharide antigens elicited a marked serological immune response in rabbits. The anti - whole cell globulin gave higher passive protection in mice than anti - capsular polysaccharide globulin. So that, rabbit anti - whole cell globulin can be used successfully to protect mice significantly. (< 0.05)