

THE EFFECT OF VACCINATION WITH INACTIVATED VACCINE RESPISURE AGAINST *MYCOPLASMA HYOPNEUMONIAE*

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Abstract. *Mycoplasma hyopneumoniae* remains an important pathogen in swine industry. The aim of the present work was to determine effect of vaccine Respisure against *Mycoplasma hyopneumoniae* in fields conditions. The investigation was conducted on 730 cross - bred seven days old piglets free from *Mycoplasma hyopneumoniae* infection. Three hundred sixty five piglets were vaccinated intramuscular. The other group 365 - was as a control (nonvaccinated). Piglets were divided into 2 groups for detailed investigations (22 piglets in each group). The results showed that in both groups the antibodies against *Mycoplasma hyopneumoniae* had not formed before vaccination. Antibodies against enzootic pneumonia in the vaccinated group had formed after the fourteen days of the second vaccination and remain till seventy-seven days. In nonvaccinated group antibodies against *Mycoplasma hyopneumoniae* did not develop. Vaccinated pigs achieved higher daily weight gain, growing, fattening and finishing weight, than the pigs in control group.

As immune response was done, this had a great influence on the health of pigs. The protection against *Mycoplasma hyopneumoniae* disease development decreases pneumonia lesions.

Keywords: enzootic pneumonia, pigs, vaccination.