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Original Article

Comparison of Excretory-Secretory and Somatic Antigens of *Ornithobilharzia turkestanicum* in Agar Gel Diffusion Test

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Abstract:

Background: Ornithobilharziosis as one of the parasitic infections may give rise to serious economic problems in animal husbandry. The Aim of the study was to prepare and compare the somatic and excretory-secretory (ES) antigens of *O. turkestanicum* in gel diffusion test.

Methods: Excretory-secretory (ES) and somatic antigens of *Ornithobilharzia turkestanicum* were prepared from collected worms from mesentric blood vessels of infected sheep. The laboratory bred rabbits were immunized with antigens and then antisera were prepared. The reaction of antigens and antisera was observed in gel diffusion test.

Results: ES antigens of this species showed positive reaction with antisera raised against ES and also somatic antigens. Somatic antigens also showed positive reaction with antisera raised against somatic and also ES antigens.

Conclusion: The antigenicity of *O. turkestanicum* ES and somatic antigens is the same in gel diffusion test.

Keywords:

Ornithobilharzia turkestanicum , Excretory-secretory , Somatic antigen , Serodiagnosis , Gel diffusion

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