CROSS REACTION ANTIGENS of *Raillietina tetragona* with ANTIBODY of *Ascaridia galli* by ELISA TECHNIQUE

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ABSTRACT

The objective of this study is to find out cross reaction between antigens of *Raillietina tetragona* with antibody of *Ascaridia galli* by indirect-ELISA technique. In the first phase, collected *Raillietina tetragona* and *Ascaridia galli* from chicken’s small intestine and created homogenate by sonication and centrifuge to get homogenate. The second phase, polyclonal antibody of *Raillietina tetragona* and *Ascaridia galli* was obtained from homogenate immunizated in mice. The third phase, cross reaction was detected by indirect-ELISA. The result showed: 1) Mean optical density (OD) value of the control antibody was 0.105; serum immunizated by *Raillietina tetragona* was 0.237 and serum immunizated by *Ascaridia galli* was 0.444. 2) Statistical analysis used was Duncan’s multiple range test 1% indicated significant difference (p<0.01) between P0, P1, and P2, so the conclusion based on the analysis above there was cross reaction between antigens of *Raillietina tetragona* with antibody of *Ascaridia galli*.

Keyword: *Raillietina tetragona*, *Ascaridia galli*, cross reaction, indirect-ELISA