THE EFFECT OF *Crescentia cujete* L LEAF EXTRACT AGAINST *Pasteurella multocida*

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ABSTRACT

The aim of this study was to know the effect of *Crescentia cujete* L leaf extract on *Pasteurella multocida* growth. *Pasteurella multocida* know as cause of fowl cholera disease in chicken. The disease could make economic impact like decrease egg productions, increasing morbidity and mortality, increasing cost of therapeutics and increasing feed consumption ratio (FCR). The method used in the study was disc diffusion with 12 treatments and 3 replications. Twelve treatments were consist of NaCl 0.85% as negative control, *Crescentia cujete* L leaf extract with various of concentrations started 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100% and Tetracycline 30μg as positive control. The result of this study showed that *Crescentia cujete* L leaf extract could inhibit the growth of *Pasteurella multocida* with various values of zone diameters. The value of zone diameter with respectively 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100% were 10.26; 10.67; 16.23; 16.23; 16.71; 16.71; 20.67; 21.70; 22.73; 24.15 and 26.13 with scale in millimeters. Tetracycline 30μg showed result 28.13 mm and NaCl 0.85% showed result 6.67 mm. By statistical analyzed result showed that 100% concentrations not significance difference with tetracycline 30μg as positive control.

Keywords: *Crescentia cujete* L leaf, *Pasteurella multocida*, Disc Diffusion method, inhibition zone