

THE INFLUENCE of “*CRUDE CHLORELLA*” AND PROBIOTIK for HDL AND LDL LEVEL on BROILER BLOOD SERUM

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ABSTRACT

Chlorella have nutrition substances that can increase the content of EPA and DHA inside of livestock meat. *Chlorella* that is distributed to the society in general, consists of extract form, so it has high selling value. This is because of the thickness of *Chlorella* cell wall that can't be eliminated easily when digestion process happens. *Chlorella* cell wall consist the part of cellulose, hemicelluloses, and pectin. That's why there is a need to research for getting the source of supplementation inside chicken woof. In this research we increased probiotik that was mixed in the chicken drinking water and *crude Chlorella* that was mixed in the chicken woof. We assumed that the increasing of probiotik can separate *Chlorella* cell wall, so in the end nutrition substances that inside of it can be exploited optimally by chicken. This research was done in the cage of Veterinary faculty University of Airlangga for 41 days, the inspection of the rate of HDL and LDL chicken blood serum was done at Balai Besar Laboratorium Kesehatan (BBLH) Surabaya. This research used 45 Broilers that divided in to 9 group of treatment. *Crude Chlorella* was mixed in the chicken woof when the seventh day of treatment, and probiotik was mixed in the chicken drinking water when the eighth day of treatment for once for four days until the treatment is finish. The interaction between the gift of *Chlorella* supplementation and probiotik to average rate of HDL, chicken blood serum showed significant difference compare to control treatment. And the interaction between the gift of *Chlorella* supplementation and probiotik to average rate of LDL, chicken blood serum showed increasing rate compare to control treatment, but still in the normal limitation.

Keys Words : *Chlorella*, probiotic, HDL, LDL.