

**PENINGKATAN JUMLAH SEL GOBLET AKTIF PADA
DUODENUM *BROILER* YANG DIPAPAR
*HEAT STRESS***

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ABSTRACT

The purpose of this study was to know the intestinal barrier response by observing number of activated goblet cells as mucin producer in the duodenum of broiler exposed by heat stress. Twenty DOC (Day Old Chick) broiler Cobb strain divided randomly into two groups. P0 (without heat stress treatment) was given the normal temperature. P1 (with heat stress treatment) was given temperature 35-35.5°C during four weeks (8 hours/day). Collected data for total count of activated goblet cells were analyzed with independent t-test. The results indicated that heat stress was very significantly increasing ($p < 0.01$) number of activated goblet cells in duodenum of broiler. The conclusion for this research was high temperature could cause the increase of the number of activated goblet cells.

Keywords : heat stress, goblet cell, broiler