

**PENGARUH PENAMBAHAN CHICORY DALAM RANSUM DOMBA
TERHADAP pH DAN GAS TOTAL (*IN VITRO*)**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh tingkat penambahan Chicory dalam ransum terhadap nilai pH cairan rumen dan gas total pada domba (*in vitro*). Penelitian ini juga bermaksud untuk mengetahui taraf pemberian Chicory yang menghasilkan produksi gas total tertinggi. Penelitian menggunakan metode eksperimental dengan Rancangan Acak Lengkap (RAL). Terdapat empat perlakuan level penambahan Chicory, yaitu R1 = 0% (sebagai kontrol), R1 = 15%, R2 = 30%, dan R3 = 45% dengan 5 ulangan. Data penelitian diolah dengan menggunakan analisis sidik ragam dan uji jarak berganda Duncan. Hasil penelitian menunjukkan bahwa penambahan Chicory ke dalam ransum domba sampai 45% tidak memberikan pengaruh terhadap pH cairan rumen dan gas total. Kesimpulan dari penelitian ini yaitu penggunaan Chicory sampai taraf 45% tidak mengganggu nilai pH cairan rumen serta tidak meningkatkan produksi gas total pada domba.

Kata kunci : rumen, domba, gas total, pH, *in vitro*

**THE EFFECT OF CHICORY ADDITION INTO SHEEP RATION ON pH
AND TOTAL GAS (IN VITRO)**

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ABSTRACT

This study aims to determine the effect of different levels of Chicory supplementation in the ration to rumen fluid pH and total gas production in sheep (in vitro). The study also aims to determine the optimal supplementation Chicory level that results highest total gas production. The research used experimental method with Completely Randomized Design (CRD). There are four treatment groups with varying levels of Chicory supplementation: R1 = 0% (as control), R1 = 15%, R2 = 30%, and R3 = 45%, each with 5 replications. The data were analyzed by analysis of variance and Duncan's multiple range test. The results indicate that the addition of Chicory to the sheep ration up to 45% does not significantly affect to rumen fluid pH and total gas production. Therefore, it can be concluded that the use of Chicory up to the 45% level have not negative effect to rumen fluid pH and does not increase total gas production in sheep.

Keywords : *rumen, sheep, total gas, pH, in vitro*