## Effect of Dietary Supplementation of Allium Hookeri Root and Processed Sulfur on the Growth Performance of Guinea Pigs

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Abstract : This study investigated the effects of the dietary supplementation of the <em>Allium hookeri </em>root, and processed sulfur, on the growth performance of guinea pigs. The guinea pigs were fed a control diet (CON), as well as the control diet including 1% freeze-dried <em>Allium hookeri </em>root (AH), or 0.1% processed sulfur (S), or including both the freeze-dried <em>Allium hookeri </em>root and the processed sulfur (AHS). The weight of perirenal adipose tissue (PAT) and the epididymal adipose tissue (EAT) in the AH were significantly lower than CON (p &lt; 0.05). The serum cholesterols levels of the AH and the AHS were significantly lower than the S (p &lt; 0.05). While the total saturated fatty acid content in the serum of the AH and AHS groups showed a tendency to decrease, the total monounsaturated fatty acid increased. The results of this study suggested that dietary consumption of <em>Allium hookeri</em> root may help to decrease fat accumulation, lower serum cholesterol levels, and control serum free fatty acid contents in the guinea pigs.

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**Keywords :** Allium hookeri, dietary supplementation, growth performance, processed sulfur, Guinea pig

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