



KEY WORDS

- ✓ Antioxidant
- ✓ Intestine
- ✓ Pomegranate Peel Extract
- ✓ Performance
- ✓ Quail

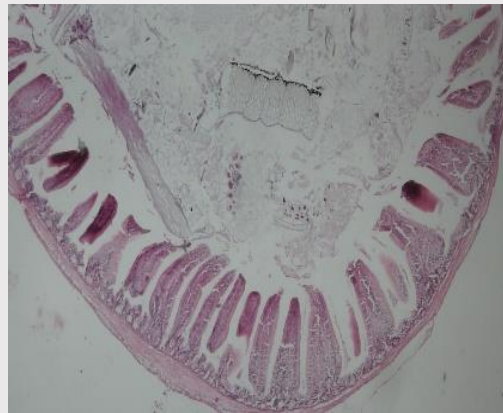
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EFFECTS OF USING POMEGRANATE PEEL EXTRACT AND PREBIOTICS TOGETHER ON FATTENING PERFORMANCE AND SOME BLOOD PARAMETERS IN QUAILS

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THESIS ABSTRACT

The purpose of this research; The use of low (7.5% mg/kg) and high (17.5% mg/kg) doses of prebiotic (1 G/Kg) and pomegranate peel extract in quail rations, separately and together with prebiotics; performance parameters (Live Weight; CA, Live Weight Gain; CAA, Feed Consumption; YT, Feed Conversion Ratio; YYO Hot-Cold Carcass Weight and Yields), Meat Quality (L*, a*, b* and Ph of Breast and Thigh Meat Values), Activity of Some Antioxidant Enzymes in Blood Serum (Superoxide Dismutase; Sod and Total Antioxidant Capacity; Tak), Fatty Liver and Hydropic Degeneration, Small Intestinal Villus Height (VY), Crypt Depth (KD), Villus Height/Crypt Depth (VY/ KD) on Villus Width (VG). A total of 240 newly hatched quails were used. Quails Are Equally Distributed into Six Groups in Terms of Ca (7.68 ± 0.63) and Gender. Rations; 0 (Control), 1 Mg/Kg Prebiotic (Pr), 7.5 Mg/Kg Pomegranate Peel Extract (Nke1), 7.5 Mg/Kg Pomegranate Peel Extract + 1 G/Kg Prebiotic (Nke1+Pr), 17.5 mg/kg Pomegranate Peel Extract (Nke2) and 17.5 Mg Pomegranate Peel Extract/Kg + 1 g/kg Prebiotic (Nke2+Pr) were added. Quails were weighed at 7-day intervals; The highest Ca value; The highest YYO was observed in NKE1, the highest YYO was observed in K, and the best YYO was observed in NKE2+Pr. The a* and b* values of leg meat were high in NKE2+Pr, the lowest pH value of breast meat was observed in NKE1, and the highest TAK value was observed in NKE2. Kc lubrication was lowest in NKE1, VY was highest in NKE2, KD was lowest in NKE2+Pr, VY/KD and VG was highest in NKE2+Pr. As a result, the use of NCE at a dose of 17.5 mg/kg added to quail diets positively affected performance, meat quality, blood serum TAC value, liver-intestinal histomorphology.

APPLICATION AREAS OF THE THESIS RESULTS

Feed additive companies
Companies producing herbal extracts
Quail production units

ACADEMIC ACTIVITIES

1. Ardıcılı, S., Dincel, D., Samli, H., Senturk, N., Karalar, B., Unlu, S., Kubad, E., & Balci, F. (2022). Association of polymorphisms in lipid and energy metabolism-related genes with fattening performance in Simmental cattle. *Animal Biotechnology*, 1-13. . <https://doi.org/10.1080/10495398.2022.2152557>
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