

A Thesis Submitted to the Graduate Studies Office in Partial Fulfillment of the Requirements of the Degree of MSc. in Animal Science-Animal Nutrition

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Abstract This study was conducted to investigate the comparative effects of the effect of probiotic (primalac), *Mentha piperita*, *Thymus vulgaris* and *Cichorium intybus*, on performance, carcasses quality, blood biochemical parameters, immun system and intestinal microbial flora of broilers. A total of 300 oned- old male broiler chicks (ROSS 308) were randomly allocated to 5 treatment groups, with 4 replicates (15 birds per replicate) in a randomized block design in a 6 weeks period (0 to 42 d). A basal standard diet was formulated based on NRC (1994) recommendation for starter (0-21d) and finisher (22-42d) periods and also supplemented with probiotic(primalac),1% *Mentha piperita*, 1% *Thymus vulgaris* and 1% *Cichorium intybus*.The results of the recent experiment showed that there were not significant differences between the treatments for feed intake($P > 0.05$). The highest body weight gain were found in the chicks fed probiotic(primalac), *Mentha piperita*, and *Cichorium intybus* 0 to 42 d (P

Keywords : Keyword: probiotic, medical plants, carcasses quality, blood biochemical parameters, immun system, intestinal flora, Broilers chicks.

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