

The Investigation of Effect of Superzist Probiotic and Medicinal Plants (Rhus Coriaria, Heracleum Persicum and Mentha Piperita) on Blood Biochemical Traits, Immune System and Small Intestine Microflora of Broiler Chicks

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This study was conducted to investigate the comparative effects of superzist probiotic and Medicinal Plants (Heracleum persicum, Rhus Coriaria L. and Mentha piperita L.) on blood parameters, immune system and intestinal microflora of broiler chickens. A total of 150 one-day old broiler chickens (ROSS 308) were randomly allocated to 5 treatment groups, with 3 replicates (10 birds per replicate) in a completely randomized design. Treatments include: 1. The first treatment (control): basal diet (without addition of probiotics and Medicinal Plants) 2. The second treatment: basal diet superzist probiotic at a rate of 0.03%. 3. The third treatment: basal diet Heracleum persicum at a rate of 0.5%. 4. The fourth treatment: basal diet Rhus Coriaria L. at a rate of 0.5%. 5. Fifth treatment: basal diet Mentha piperita L. at a rate of 0.5%. In day 42 blood samples were collected all chickens to measure blood parameters including glucose, triglycerides, total cholesterol, HDL, LDL, VLDL, uric acid, albumin and total protein and immune to determine heterophil, lymphocyte and the ratio of heterophil to lymphocytes was conducted. To assess the microflora of the digestive substance (contents) ileum were used. Bacteria, including E. coli and Lactobacillus were studied in this research. Studing the results showed that blood biochemical parameters in chickens in the measured traits were not significantly different ($p > 0.05$) in some hematological measured parameters such as glucose levels, (HDL), uric acid, albumin and total protein while in other traits studied

included blood cholesterol, triglycerides, (LDL), and (VLDL) treatments studied were significantly different (p

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