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English abstract	<p>This study was designed to investigate the effect of <i>Moringa oleifera</i> and <i>Sweet basil</i> as a natural feed additives on chicken production performance, complete blood pictures, immune response and antioxidant parameters in normal and experimentally infected chickens with <i>E.coli</i>. A total of 120 unsexed one- day- old, broiler chickens (Cobb) were randomly assigned to 6 treatment groups each of 20 as follows: G1 as the control; G2 received 5% <i>Moringa oleifera</i> supplement; G3 received 0.5% <i>Sweet basil</i>; G4 infected by <i>E.coli</i> only; G5 infected and treated by 5% <i>Moringa oleifera</i> and G6 infected and treated by 0.5% <i>Sweet basil</i>. Our work revealed growth promoter effect by increase body weight in the group fed 0.5 % <i>Sweet basil</i> and non-significant increase in body weight in the group fed 5 % <i>Moringa oleifera</i> at the end of experiment. Clinicopathological investigation showed non- significant change in RBCs, PCV and Hb in <i>Moringa oleifera</i> and <i>Sweet basil</i> treated groups. There was normocytic normochromic anemia and a significant increase in TLC and lymphocyte in infected non treated group. Also, treated groups and infected treated groups showed a significant increase in TLC and lymphocyte, but less than the infected group. ALT and AST showed a significant increase in infected group, while infected treated groups showed a significant decrease as compared with the infected group. Serum total protein and albumin showed a significant decrease with a significant increase in globulin in infected group. While infected treated groups showed a significant increase in total protein and albumin as compared with the infected group.</p> <p>Serum glucose and cholesterol showed a significant decrease in infected group. While infected treated groups showed a significant increase in glucose and cholesterol as compared with the infected group. Uric acid and creatinine concentrations showed a significant increase in infected group. While infected treated groups showed a significant decrease in uric acid and creatinine as compared with the infected group. Immunological investigation revealed a significant increase in IgM, IgG and IL6 in infected group. While infected treated groups showed a significant decrease in IgM, IgG and IL6 as compared with the infected group.</p> <p>Regarding antioxidant parameters, the serum MDA level was significantly increased while the serum SOD and GSH levels were significantly decreased in infected group. While infected treated groups showed a significant decrease in MDA with a significant increase in SOD and GSH levels as compared with the infected group. While the supplemented groups by <i>Moringa</i> and <i>Sweet basil</i> were improved the general health of chickens.</p>
Key words	<i>Moringa oleifera</i> , <i>Sweet basil</i> , broilers, growth promoter, hematological, biochemical, immunomodulator, <i>E.coli</i>

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