

Effect of Ajwain (*Trachyspermum ammi*) Supplementation on Haemato-Biochemical Parameters of Broiler Chicks

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ABSTRACT

It is hypothesized that dietary Ajwain (*Trachyspermum ammi*), a phytogetic feed additive, may have a positive effect on blood profile and improve immunity of broiler chicks. A total of 150, Vencob-400 broilers were fed different levels (0, 0.5, 1.0, 1.5 and 2.0%) of Ajwain seed in the basal diet during a 42-day period (Pre-starter: day 0-7; starter: day 8-21 and finisher: day 22-42). On day 42, blood samples were collected from two birds per replicate to study blood chemistry. The results revealed that haematological parameters such as Hb, PCV, TEC, serum albumin and A/G ratio improved significantly ($P<0.01$) at 1.5% level of Ajwain supplementation, while globulin, total protein, glucose, triglyceride, cholesterol and creatinine decreased. It is concluded that the inclusion of Ajwain up to 1.5% level in broiler diet has a positive effect on the blood profile of broiler chicks thereby improving their immune system.

Key words: Ajwain, Blood, Broiler, Diet, Phytogetic

CONCLUSION

The results of this study showed that inclusion of Ajwain in broiler diet significantly ($P<0.01$) increased the blood and serum parameters such as Hb, PCV, TEC, TLC, albumin and A/G ratio, while globulin, total protein, glucose, triglyceride, cholesterol and creatinine levels decreased. All the values were found to be in the normal physiological range and the best blood profile was found at 1.5% level of Ajwain. Authors concluded that inclusion of Ajwain up to 1.5% level in diet has positive effect on blood profile of broiler chicks thereby improving their immune system.

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