

THE EFFECT OF MICROBIAL EXPOSURE BY USING LACTOBACILLI AND CECAL MICROFLORA ON THE PRODUCTION PERFORMANCE OF BROILER

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ABSTRACT

Recent studies showed that microbial exposure by useful microorganism at an early age leads to improve production performance and reduce possibility of disease infection.

Two experiments were designed to study that . The first experiment was conducted to study the effect of isolated lactobacilli from a mature chickens crop and cecal microflora on the production performance of broilers. The given dose of both microorganism was calculated on the bases of providing 10^6 c.f.u per chicks .

The results revealed following :

- Giving both microorganism showed significant increase $P < 0.01$ in body weight , feed conversion and significant decrease in mortality comparing with control group and both microorganism showed significant increase $P < 0.05$ in production index , P.I , Economic figure E.F comparing with control group.

No significant differences were noticed with regard to dressing yield and offal's to life weight.

The second experiment was conducted to study the effect of introducing lactobacilli to immune chicks against the virulent Salmonella at challenge test compared with Salmonella vaccine

from Aro indepented strain of *Salmonella typhimurium* . The results revealed the following :

- Giving lactobacilli bacteria to chicks sifnificantly reduced the number of coliform in crop , jujenum at the meantime it did not appear in the ceca and significantly increased body weight and reduced the mortality .