Effect of dietary supplementation of *Curcuma* and ginger on the microflora of leghorn hens

**ABSTRACT:**
This study was conducted to determine the effect of adding 0.0, 0.05, 0.1% of ginger powder or 0.4 and 0.6% of curcuma powder on microflora of white leghorn hens. Total of 100 white leghorn birds were used with 34 weeks old which were randomly distributed to five treatments (20 birds for each treatment). Results indicated that adding of either 0.05 and 0.1% of ginger powder or 0.4 and 0.6% of curcuma powder has reduced the bacterial total count, coliforms, *Staphylococcus aureus* and yeast in different parts of gut tract (intestine, pad and caecum), as the absence of coliforms bacteria and yeast in both pad and caecum where indicated when using 0.1% of ginger powder, while there was no *S. aureus* bacteria of this concentration in the three tested parts of the gut tract. The use of 0.6% of curcuma powder resulted in the absence of *S. aureus* bacteria in the intestine and reduction in the pad and caecum. As a conclusion, the results obtained were encouraging and different in their effect on the inhibition of bacteria and yeast and can play an important role when used in chicken feed.

**Keywords:**
White leghorn, *Curcuma*, ginger, chicken feed.