

Effects of Raw Bee Propolis and Water or Ethanol Extract of Propolis on Performance, Immune System and Some Blood Parameters on Broiler Breeders

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Abstract : The effects of raw bee propolis (RP) and water (WEP) or ethanol (EEP) extract of propolis on growth performance, selected immune parameters (IgA, IgY and IgM) and some blood parameters such as aspartate aminotransferase, alanine aminotransferase, trygliceride, total protein, albumin, calcium, phosphorus, total antioxidant status and total oxidant status were determined. The study was conducted between 15th and 20th weeks (6 weeks) and used a total of 48 broiler breeder pullets (Ross-308). The broiler breeder in control group was fed diet without propolis whereas the birds in RP, WEP and EEP groups were fed diets with RP, WEP and EEP at the level of 1200, 400 and 400 ppm, respectively. All pullets were fed mash form diet with 15% crude protein and 2800 ME kcal/kg. All propolis forms had not a beneficial effect on any studied parameters compared to control group ($P > 0.05$). The results of the study indicated that both the level of the active matters supplied from the bee propolis has no enough beneficial effect on performance, some immune and blood parameters on broiler breeders or they did not have such a level that would cause a beneficial effect on these variables.

Keywords : antioxidant, bee product , poultry breeders, growth performance, immune parameters, blood chemistry

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