

عنوان مقاله:

In ovo and dietary feeding of betaine to broiler chickens under heat stress conditions: Effects on hatchability, performance, body temperature and blood parameters

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خلاصه مقاله:

The effects of in ovo feeding (• and \g/L) and dietary feeding (• and \g/kg diet) of betaine on hatchability, performance, body temperature and blood parameters of broiler chicks under heat stress condition, were investigated using Foo fertile eggs (Ross ۳۰λ) for in ovo injection at IV.Δd of incubation. After hatching, INY male chickens were divided into four groups: 1- In ovo feeding of non-betaine solution and post-hatch diet without betaine, Y- In ovo feeding of nonbetaine solution and post-hatch dietary feeding 1g per kg of betaine, "- In ovo feeding of 1g per L betaine solution and post-hatch diet without betaine, and F- In ovo feeding of 1g per L betaine solution and post-hatch dietary feeding 1g per kg of betaine. The chicks were exposed to heat stress from Y-YAd for Fh/d. The results showed that body weight of hatched chicks and the hatched chick body weight to initial egg weight ratio, was significantly increased by in ovo feeding of betaine (P<...a). The effects of in ovo feeding and dietary feeding of betaine resulted in higher feed intake (P<0.0Δ) and daily weight gain (P<0.01) and improved feed conversion ratio (P<0.0Δ) for Y-YId. Birds that received dietary betaine had more carcass, breast and leg weight than chickens receiving betaine-free diet at YAd (P<0.04). The experimental treatments had no significant effect on carcass yield at d FY. During heat stress between IF and YId age, the group that did not receive betaine (in ovo or dietary) had the highest cloacal temperature (P<0.01). The concentration of high-density lipoproteins, triglycerides and cholesterol in the blood of chickens that received betainefree diet was significantly higher than other groups (P<0.0A). In general, dietary betaine feeding improved the performance and carcass parameters and decreased blood lipids and cloacal temperature of chicks under heat stress .conditions. However, these effects were not observed from days YA to FY, which were free of heat stress

کلمات کلیدی: carcass, cholesterol, cloacal temperature, in ovo injection

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