

## **The effect of different levels of virginiamycin and energy on performance and blood components in broiler chicks**

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### **ABSTRACT**

**This experiment was carried out to study the effect of different levels (2800,2900) Kcal/Kgdiet) of energy and virginiamycin (0,10,20,30 mg/kgdiet) on performance and components of blood serum of broiler chicks.in completely randomized design and in a 2\*4 factorial arrangement ,fourty hundered and eieghty(480) broiler chicks(ross) were divided into 24 groups,20 chick per group.feed consumption,body wieght and mortility of each pen were determined at 21,42, and 56 days of experimental period. at the end of experimental period from each pen one male and one female were selected,then slauthered and blood samples were collected at slauthering time.after separation of serum,calciume.phosphorus,magnasium and triglyceride were measured by using the relevent methods.Also percentage of smal intestine,abdominal fat,liver and etc,were measured.The results indicated that different level of energy had not significant effect on body wieght,feed conversion ratio and blood serum components,but it is effect on feed cosumption at the 21th days of age was significant( $p<0.05$ ).Virginiamycin had not significant effect on the everage feed consumption and blood serum components,although these criteria trend with increasing the levels of virginiamycin.Virginiamycin had significant( $p<0.05$ ) effect on everag body wieght and feed conversion ratio (0-21 days).Interaction between energy and virginiamycin(body wieght from 0 to 21 and 21 to 42 days) were significant( $p<0.05$ ).Interaction between virginiamycin and different levels of energy had not significant effect on abdominal fat percentage, liver percentage, and blood serum components.Interaction between virginiamycin and sex on intestine percentage was significant( $p<0.05$ ).Interaction between virginiamycin, energy and sex had not significant effect on plasma components including calcium,phosphorous,magnasiumandtriglyceride.**

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**Keywords:**

**Virginiamycin,Energy,metabolite,broiler**