



Milk Production and Some Blood Metabolites of Egyptian buffaloes as affected by Chromium Methionine Supplementation

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Abstract:

Chromium has been reported to play essential roles in activity of certain enzymes, metabolism of protein and nucleic acids as well as impact on immune functions. The aim of current study was to assess the effect of supplemental chromium on performance and blood serum biochemistry of lactating buffaloes. Thirty lactating buffaloes (aged 3-6 years , average body weight 567 ± 22.78 Kg) were equally divided into two groups. Group one, control, which received no chromium supplementation and group two, treated group, received 5 mg / head / day of chromium methionine from 6 wk to 19 wk Postpartum. The composition of feed mixture and rice straw consumed by lactating buffaloes were analyzed. Milk production and composition (Fat, Protein, Solid non Fat, total Solid and Ash percentages) were evaluated weekly. Blood serum biochemicals (glucose, cholesterol, triglycerides, total protein, insulin and cortisol) concentration were estimated on the 42 th , 72 th , 102 th and 132 th day . The results indicated significant increase in milk production and 7 % FCM during the entire period (P

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