

عنوان مقاله:

Anovel chemical method for measuring ketone bodies insubclincal ketosis

محل انتشار:

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خلاصه مقاله:

BACKGROUNDS: Subclinical ketosis can cause greater economic loss due to a lack of clinical symptoms. **OBJECTIVES:** The present study was aimed to design a chemical method for measuring serum ketone bodies in the affected subclinical cows. **METHODS:** Acetoacetate concentrations were measured using a nitroprusside reaction and β -hydroxy butyric acid (BHBA) which was oxidized to acetoacetate using nanosilver particles to determine its concentration. Recovery tests were done for different concentrations of betahydroxy butyrate in bovine pooled serum. **RESULTS:** Actoacetate levels were in range of 0.1-6 mM, and the values for BHBA were found to be in the range of 0.125-3 mM. **CONCLUSIONS:** It was concluded that this technique can be considered as a simple method for measuring ketone bodies in biological fluids

کلمات کلیدی:

ketosis, betahydroxybutyric acid,acetoacetate, nanosilver

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