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FINAL YEAR PROJECT

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EFFECT OF PARAMPHISTOMES ON SOME
METABOLIC ENZYMES IN CATTLE LIVER



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DEPARTMENT OF APPLIED BIOLOGY AND
BIOCHEMISTRY

FACULTY OF APPLIED SCIENCE

This project was done in partial fulfillment of BSc. (Hons) Degree in
Applied biology and Biochemistry.

2009

Abstract

Conventional methods for parasitological examination, salt floatation and direct smear, were used to identify cattle infected with paramphistomes, which are gastrointestinal parasites. Non-infected cattle were used as controls. Enzyme activities were assayed from cow liver obtained from 10 controls and 15 infected cattle. The enzyme assayed were succinate dehydrogenase (SDH), lactate dehydrogenase (LDH) and DT-Diaphorase (DTD). Their activity was compared between the controls and the infected cattle using the student t test at 5% level of significance. Total protein was also assayed and compared between the controls and the infected cattle. Results showed that SDH, LDH and DTD activities were significantly higher in infected cattle than in controls and the protein content was statistically not altered. The results suggest that infected cattle have an increased energy demand as compared to non-infected cattle and also that cattle could be under a lot of oxidative stress as a result of infection.