ACTIVITIES OF THE SERUM SOME ENZYMES IN DIFFERENT BREED CATTLE

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The normal reference activities of some serum enzymes of Holstein and Brown Swiss and effects of sex and special were determined. Thirty young males and thirty young females, at 11-12 mounts of age grazed in the pasture of the Agricultural College Farm of Atatürk University, were used for this study. The altitude of this farm is around 2000 m above sea level and climatic conditions are too harsh especially during winter.

The activities of aspartate aminotransferase (AST), alanine aminotransferase (ALT), alkaline phosphatase (ALP), gamma-glutamyl transpeptidase (GGT), creatine kinase (CK), α-amylase (α-AMY) and lactate dehydrogenase (LDH) in blood serum were analyzed on autoanalyzer by using commercial kits. There were no significant differences between the males and females. There were also no significant differences among enzymes in breeds.

The data given in this study can serve as reference values for Holstein and Brown Swiss cattle grown in Turkey and other countries having similar climatic and nutritional conditions.