

**Relationship of the Enzyme Activities in Blood and Liver of Growing Cattle**

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The proteolytic activities of lysosomal enzymes as well as their performance are influenced by systematic environmental factors. The aim of the study was to determine the correlation between the individual lysosomal enzyme activities in serum, leucocytes, liver, and muscle with different stages of cattle development. High correlations also were calculated between 9 and 16 month old heifers for enzyme activity in liver by  $r = 0.6 - 0.9$ . This has been taken into account by the simultaneity, the same age, and by the same proportion in the groups of young German-Holstein heifers. There were altogether 39 investigations, 19 in the 9 months old, and 20 in the 16 months old female young cattle. Lysosomal enzymes in leucocytes were proven inappropriate for investigation because of their high variation coefficients (up to 107%). The enzymes investigated in serum, liver and muscle only had variation coefficients ranging from 20 to 40% in most cases. The closest connection between activities of individual enzymes was observed in the liver, were highly correlated with each other.