

INFLUENCE OF STARVATION ON ACTIVITY OF SOME LIVER LYSOSOMAL
ENZYMES IN SELECTED AND UNSELECTED MICE.

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SUMMARY

The activity of the lysosomal hydrolases, beta-glucuronidase/EC.3.2.1.31/, cathepsin B /EC.3.4.4.-/, cathepsin D /EC.3.4.23.5/ and the leucine aminopeptidase /EC.3.4.11.2/ was followed in the liver of two groups of mice, one selected for high body gain and unselected one. The activities of the estimated enzymes were distinctly higher in the liver of unselected mice, especially of proteases. The animals of both experimental groups were starved for 48 hours. After this period of starvation some changes in the behaviour of these enzymes were observed in both estimated groups. There was a distinct rise of the free, non-particel bound activity of proteases in both groups, followed by an increase of the total activity of all estimated enzymes. The observed changes were deeper in the group of unselected mice.

The biological significance of this phenomenon is discussed.

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