KINETIC PROPERTIES OF GLUTATHIONE REDUCTASE FROM RAT LIVER AT NORM AND UNDER EXPERIMENTAL TOXIC HEPATITIS

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Kinetic properties of glutathione reductase (E.C. 1.6.4.2) from normal and damaged by CCl4 rat liver have been investigated, using purified enzyme preparations. The purification procedure included fractionation by ammonium sulfate in border of saturation 40-70%, gel-filtration on Sephadex G-25 and ion-exchange chromatography on DEAE-cellulose. It has been shown, that Km value in relation to oxidized glutathione for enzyme from a liver of control group rats and animals with toxic hepatitis is 0,23mM and 0,71mM respectively. The Km value in relation to NADPH has been estimated as 0,20 and 1,70mM in conditions of norm and toxic hepatitis respectively. The pH-optimum value for enzyme from rat liver at norm and under toxic hepatitis is 7,2-7,5.