

**PURIFICATION AND SOME CATALYTIC PARAMETRES  
OF NAD-DEPENDENT ISOCITRATE DEHYDROGENASE  
FROM RAT LIVER AT NORM AND UNDER  
EXPERIMENTAL TOXIC HEPATITIS**

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NAD-dependent isocitrate dehydrogenase (EC 1.1.1.41; NAD-IDH) has been purified from liver of control rats and animals with toxic hepatitis by differential centrifugation, gel-filtration on Sephadex G-25, ion-exchange chromatography on DEAE- Cellulose. At result NAD-IDH enzyme preparations from liver of control and subjected to hepatitis rats have been obtained with 45,5 and 42,4 fold purification and total yield 59,1% and 76,3% respectively. Using purified NAD-IDH enzyme preparations increase of Hill coefficient for isocitrate, Michaelis constant, substrate inhibitory constant for NAD<sup>+</sup> and displacement pH optimum under toxic hepatitis have been revealed.