

Good Experimental  
to check  
pulses

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EFFECTS OF PULSED LOW-FREQUENCY MAGNETIC FIELD ON ACTIVITY OF REDOX ENZYMES  
IN THE ALBINO RAT LIVER (HISTOCHEMICAL INVESTIGATION) [inhibition of succinate  
dehydrogenase in hepatic tissue of rats exposed acutely to 900 Oe fields,  
or chronically to 300 Oe fields.]  
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na Aktivnost' Ikislitel'no-vosstanovitel'nykh Fermentov v Pecheni Belykh Krys  
(Gistokhimicheskoye Issledovaniye), Russian, submitted 14 September 1970,

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Among the enormous range of electromagnetic oscillations that man encounters in the course of industrial activity, pulsed magnetic fields (PMF) have not been investigated to date, although they are being increasingly used in several branches of industry. As for constant [static, continuous] magnetic fields (CMF), it was demonstrated experimentally that they have a direct effect on enzyme activity (Cook and Smith), processes of tissular respiration (Reno and Nutini), and alter the activity of a number of oxidative enzymes (M.A. Shishlo and L.L. Shimkevich).

In view of these investigations dealing with the effects of CMF on various aspects of biological oxidation, as well as of the significant role of energy metabolism in regulating the most diverse physiological processes, we deemed it purposeful to investigate the activity of some redox enzymes under the influence of PMF.

check of 130 pulse duration, 10 sec. between pulses, at 100 Hz of 7 kHz  
pulse modulation