

The effect of G009 on lipidperoxidation in rat liver microsome

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The purpose of this study was to observe the effects of the polysaccharide(G009) obtained from liquid cultured *Ganoderma lucidum* IY009 on the lipidperoxidation in rat liver microsome. It is well known that the polysaccharide of *G. lucidum* have the hepatoprotective activity, antitumor activity etc., which was thought to have the relationship to anti-lipidperoxidation. In order to the estimate the effects of anti-lipidperoxidation of the polysaccharide obtained from *G. lucidum* IY009, enzymatic and nonenzymatic reaction were performed, *in vitro*, in rat liver microsome. In enzymatic lipid peroxidation reaction by ADP/FeCl₃/NADPH and CCl₄/NADPH, G009(1mg/ml) inhibited 77.4%, 39.4%, respectively, and the nonenzymatic reaction strongly exhibited 97.4% inhibition. And also, in enzymatic and nonenzymatic inducers treated with G009, the formation of MDA was progressively greater decreased by raising G009 concentration. These results suggest that anti-lipidperoxidation by G009 treatment may be play an important part in liver protection action.