

General Pharmacology of G009, a Polysaccharide Isolated from *Ganoderma lucidum* IY 009

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A polysaccharide, G009, isolated from *Ganoderma lucidum* IY009 subjected to investigating on general pharmacology. This material at the large oral doses of 1000 and 2000mg/kg in mice did neither exhibit any abnormal behaviors nor effects on central nervous system. It also had no influences on hexobarbital-induced sleeping time, rotarod test and spontaneous activity test at each oral dose of 1000mg/kg in mice. No effects on the body temperature and on acetic acid induced writhing syndrome in mice were observed with its oral administration at 1000mg/kg, and the convulsions induced by strychnine and pentetrazole were not inhibited at its oral doses of 1000mg/kg in mice. The solution of G009 as given intravenously at the doses of 30 and 60mg/kg in rabbit had no influences on blood pressure and respiration rates and depth. In isolated organs of rat uterus and fundus muscles and guinea-pig ileum and trachea, it did not show any contraction or relaxation at the concentration of 2×10^{-3} g/ml, and the contractive actions produced by oxytocin, acetylcholine, serotonin and histamine did not inhibited by the same doses. This material showed no effect on intestinal propulsion test in mice and gastric secretion in rats at the oral doses of 1000mg/kg. However, it is interesting that the material exhibited potent inhibition of acidified aspirin induced gastric damage at the doses of 500 and 1000mg/kg in rats.