Effects of chicken extract on antioxidative status and liver protection under oxidative stress

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Abstract
Chicken extract contains carnosine and anserine, both of which possess some antioxidant abilities. The objective of this study was to investigate the protective effects of chicken extract in male Sprague-Dawley (SD) rats under induced oxidative stress. Carbon tetrachloride was used as the oxidative stress inducer. Glutamic-oxalacetic transaminase (GOT), glutamic-pyruvic transaminase (GPT), total antioxidant status (TAS), thiobarbituric-reactive substances (TBARS), iron content, and the activities of antioxidant enzymes were determined. We concluded that under oxidative stress, the intake of chicken extract was helpful in promoting the activities of antioxidant enzymes and in protecting the liver from oxidative damage.