

عنوان مقاله:

Effects of propolis on biochemical and microbiological parameters in carp (*Cyprinus carpio*) fillets exposed to arsenic

محل انتشار:

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خلاصه مقاله:

The purpose of this study was to investigate the therapeutic effects of propolis on biochemical and microbiological parameters in muscle tissues of carp (*Cyprinus carpio*, Linnaeus ۱۷۵۸) exposed to arsenic. A sublethal concentration of arsenic (۰.۰۱ ppm) and/or ۰.۰۱ ppm propolis were administered to fish for seven days. Biochemical parameters [pH, lactic acid, total volatile basic nitrogen (TVB-N), and malondialdehyde (MDA) values] and microbiological changes (mesophilic and psychrophilic bacteria count) were determined in fillet of carp in control, arsenic only, propolis only and arsenic+propolis treatment groups. Results showed that the levels of MDA, lactic acid and TVB-N increased ($p < 0.05$) while there were decreases total counts of psychrophilic, mesophilic bacteria and level of pH in arsenic group compared to the control group. Additionally, levels of pH, lactic acid, TVB-N, counts of psychrophilic and mesophilic bacteria in arsenic (۰.۰۱ ppm)+propolis (۱۰ ppm) group significantly reduced compared to arsenic group ($p < 0.05$). In conclusion, propolis can affects some biochemical and microbiologic functions and quality in the fillet of carp exposed to arsenic.

کلمات کلیدی:

Arsenic, Biochemical parameter, Carp, Fillet, Microbiological analysis, Propolis

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