Antioxidant and antiapoptotic activities of Calotropis procera latex on Catfish (Clarias gariepinus) exposed to toxic 4-nonylphenol.


Abstract:

Abstract Calotropis procera L. is known as medicinal plant. The Phytochemical analyzes of its latex revealed that it possessed antioxidants, namely terpenes, phenolic compounds and cardenolides, flavonoids and saponins, while tannins, alkaloids and resin were absent in moderate to high concentration. In the present study, the role of latex of Calotropis procera as antioxidant and antiapoptotic was reported. To carry out this aim, fishes were exposed to 100 µg l⁻¹ 4-nonylphenol as chemical pollutant. The enzymes, superoxidase dismutase, catalase, acetylcholinestrase (AchE), glutathione s-transferase, cortisol, G6PDH) and apoptotic cells increased significantly (p

Keywords:

Keywords Calotropis procera; Latex; Antioxidant; Apoptosis; Catfish; 4-nonylphenol

Published In:

Ecotoxicol Environ Saf. , 128 , 189-94.